PNL® KABİN

www.panelkabin.com.tr

Perfect Design and Superior Quality in Electrical Panels...

EMPTY ENCLOSURES FOR L.V. SWITCHGEARS

ACCORDING TO IEC EN 62208
POLYURETHANE FOAM GASKET
IP65 IP54 IK10

Products

L.V. FULLY TYPE TESTED ASSEMBLIES

ACCORDING TO IEC 61439-1/2
IEC 60068 ZONE-4 SEISMIC EARTHQUAKE
UP TO FORM-4B 100kA 4000A

Products

BOXES AND ENCLOSURES

FOR ELECTRICAL ACCESSORIES FOR HOUSEHOLD
ACCORDING TO IEC 60670-24

Products

SOLAR PHOTOVOLTAIC PANELS

UP TO 800VAC
FOR PV SOLAR ENERGY FACILITIES

Products

About Us

As Panel Cabin Electrical Systems Company, our production center and office building are located in Esenyurt Alkop Industrial Site . Since 1994;

- In Industrial Facilities, Power Plants
- Heavy Industry Factories
- In Mass Housing, Shopping Malls and Hospitals
- In Port and Marine Projects

We provide services in Empty Panel manufacturing and Assembled Electrical panels.

We can export without any problems due to the certificates we have.

- Our GOST-R - EAC Certificate, which is accepted as the standard of the Russian government and the Turkic States,
- We have a CE Conformity Approval Certificate, which is seen as an entry ticket to EU countries.
- Compliant with ISO 9001, ISO 45001 and ISO 14001 Quality management system certificates
- 4000A 100kA FORM-4B Full Type Test Certified Mounted Electrical Panel in accordance with IEC EN 61439-2 Standard
- Certified Empty and Assembled Electrical Panel in accordance with IEC EN 60068 Seismic (Earthquake) ZONE4 Standard
- Seismic (Earthquake) Certified Empty and Assembled Electrical Panel in accordance with UL AC-156 American Standard
- TSE certified EMPTY Panel production in accordance with IEC EN 62208 Standard
- We produce TSE certified fuse boxes in accordance with IEC EN 60670-24 standard.

Panel Kabin produces modular and welded electrical panels on automatic machine tools.

In our machinery, CE certified heavy industry CNC machines suitable for the latest technology are used.

The sheets we used in panel manufacturing are Ereğli Iron and Steel products.

Liquid gasket casting is used in our products with CNC gasket casting machine. The gaskets used provide IP65 level.

Due to the advantage of being a manufacturing company in the sector, we also provide TSE certified IEC 62208 (Empty Enclosures) to our colleagues.

We provide support in the sale of Empty Panels.

Besides ;

- Metal sheet cutting, drilling, bending operations kiosk panels
- Generator cabins
- Shelves and stands
- Withdrawable Electrical Panels
- We also manufacture special production products.

Although we provide service to every region of Turkey and all over the world, we can also issue export registered invoices as we are a manufacturer company.

Vision & Mission

Our Vision

- To make Panel Kabin a global brand by meeting customers' expectations at the highest level and continuing to grow, based on the philosophy of total quality management.

Our Mission

- Providing the best service in the sector at optimum cost by using our resources effectively;
- Giving the necessary importance to product development, bringing new products to the sector and being a follower of technological innovations.
- To be a company that achieves customer satisfaction at the highest level, creates an educated and qualified workforce by keeping the principle of the best investment in its employees, and adds value to our country with social responsibility and the environment.

Quality Policy

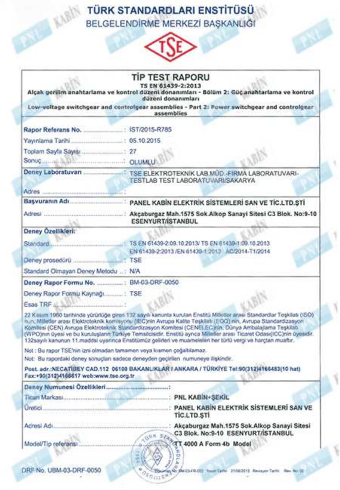
Our company's senior management has determined our quality policy, which states our company's goals and guides its goals, aims to improve continuously, and indicates its commitment. This policy was communicated to all our employees through training, and they were ensured to understand and comprehend it. By hanging in visible places in our company, our goals and commitments are constantly visible to our employees, customers, and suppliers.

Our quality policy is reviewed annually to ensure its suitability, effectiveness, and whether it is indicative of our goals and objectives.

Our goal is to move our company to a level where it can compete with our competitors in the international market regarding quality, price, and efficiency and to improve and improve our products and systems continuously. As we walk towards our goal, our basic policy is to accept quality as our primary line and to increase customer, employee, and shareholder satisfaction constantly.

- To become a leading company in our industry by increasing domestic sales volume,
- Reduce Costs
- To expand training activities for all personnel, to constantly support them, to encourage them to participate in quality improvement and development studies,
- Since our goal is customer satisfaction and continuous improvement, we are never satisfied with our work and always seek better and error-free.

TSE 61439 Type Test



IEC 61439 Full Type Test

TSE IEC 61439-1-2 (Assembled Panels)-1

TSE IEC 61439-1-2 (Assembled Panels)-2

TSE IEC 61439-1-2 (Assembled Panels)-3

TSE IEC 62208 (Empty Panels)-1

TSE IEC 62208 (Empty Panels)-2

TSE IEC 60670-24 (Fuse Boxes)-1

TSE IEC 60670-24 (Fuse Boxes)-1

TSE IEC 60529 IP54 Test Report - For Wall Mounted Panels

TSE IEC 60529 IP54 Test Report - Freestanding Panels

TSE IEC 60529 IP54 Test Report - Freestanding Panels

TSE IEC 60529 IP65 Test Report - Freestanding Panels -2

TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI

Rapor No/ İST/2015-R778

MUAYENE - DENEY SONUÇLARI *TEST RESULTS*

DENEY RAPORU
TS EN 62208:2011/ 08.03.2012/16.04.2014
BOŞ MAHFAZALAR - ALÇAK GERİLİM ANAHTARLAMA VE KONTROL DÜZENLERİ İÇİN GENEL ÖZELLİKLER

Rapor Numarası	İST/2015-R778
Yayın tarihi	28.09.2015
Toplam sayfa sayısı	13
Talep eden	PANEL KABİN ELEKTRİK SİSTEMLERİ SAN VE TİC.LTD.ŞTİ.
Adres	Akçaburgaz Mah.1575 Sok.Alkop Sanayi Sitesi C3 Blok. No:9-10 ESENYURT/İSTANBUL
Deney spesifikasyonları	
Standard	TS EN 62208:2011/ 08.03.2012/16.04.2014 -
Deney prosedürü	TSE-
Standard dışı deney metotları	N/A
Test Rapor Form No.	IEC62208B
Test Rapor Form(s) Originator	OVE
Master TRF	Dated 2013-01

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Deney Numunesinin Tanımı	DZ-H Model,Metal,Bina Dışı 300mm/800mm/300mm ile 800mm/2200mm/800mm ,Zemine Sabitlenen, IP 65, IK 10
Marka	PNL KABİN+ŞEKİL
Üreticisi	PANEL KABİN ELEKTRİK SİSTEMLERİ SAN VE TİC.LTD.ŞTİ.
Modeli/ tip referansı	DZ-H Model,Bina Dışı,Zemine Sabitlenen
Anma değerleri	IP 65,IK 10

TRF No. IEC62208B
LAB-D-FR-36/15.08.2014-0

TSE IEC 60529 IP65 Test Report - Wall Mounted Panels

TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI

Rapor No/ İST/2015-R777

MUAYENE - DENEY SONUÇLARI *TEST RESULTS*

DENEY RAPORU
TS EN 62208:2011/ 08.03.2012/16.04.2014
BOŞ MAHFAZALAR - ALÇAK GERİLİM ANAHTARLAMA VE KONTROL DÜZENLERİ İÇİN GENEL ÖZELLİKLER

Rapor Numarası	İST/2015-R777
Yayın tarihi	28.09.2015
Toplam sayfa sayısı	13
Talep eden	PANEL KABİN ELEKTRİK SİSTEMLERİ SAN VE TİC.LTD.ŞTİ.
Adres	Akçaburgaz Mah.1575 Sok.Alkop Sanayi Sitesi C3 Blok. No:9-10 ESENYURT/İSTANBUL
Deney spesifikasyonları	
Standard	TS EN 62208:2011/ 08.03.2012/16.04.2014 -
Deney prosedürü	TSE-
Standard dışı deney metotları	N/A
Test Rapor Form No.	IEC62208B
Test Rapor Form(s) Originator	OVE
Master TRF	Dated 2013-01

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Deney Numunesinin Tanımı	DO-H Model,Bina Dışı 300mm/400mm/150mm ile 800mm/1200mm/400mm ,Duvara Monte edilen IP 65, IK 10
Marka	PNL KABİN+ŞEKİL
Üreticisi	PANEL KABİN ELEKTRİK SİSTEMLERİ SAN VE TİC.LTD.ŞTİ.
Modeli/ tip referansı	DO-H Model,Bina Dışı,Duvara monte edilen
Anma değerleri	IP 65,IK 10

TRF No. IEC62208B
LAB-D-FR-36/15.08.2014-0

TSE IEC 62208 Corrosion Test Report-1

TSE IEC 62208 Corrosion Test Report-2

TSE DENEY ve KALİBRASYON MERKEZİ BAŞKANLIĞI
Elektroteknik ve Kimya Laboratuvarları Grup Başkanlığı
Elektroteknik Laboratuvarı Gebze Müdürlüğü

HEADSHIP OF TSE TEST and CALIBRATION CENTER
ELECTROTECHNICAL LABORATORY (GEBZE)

268326
09-15

MUAYENE VE DENEY RAPORU
TEST REPORT

Deneyi Talep Eden	: İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ
Customer	PANEL KABİN ELEKTRİK SİSTEMLERİ SAN VE TİC.LTD.ŞTİ. AKÇABURGAZ MAH.1575 SOK.ALKOP SANAYİ SİTESİ C3 BLOK NO:9-10 ESENYURT/ İSTANBUL Avcılar-İSTANBUL)
Deney Talep Tarihi/No	: 21.07.2015 / 113617
Numunenin Tanımı	: BOŞ MAHFAZA PNL KABİN+ŞEKİL, DD-H Model ... BİNA DIŞI
Numune Kabul Tarihi	: 21.07.2015
Deneylerin Yapıldığı Tarih	: 29.07.2015 - 02.09.2015
Uygulanan Standard / Metod	: TS EN 62208:2014-4 Boş mahfazalar - Alçak gerilim anahtarlama ve kontrol düzenleri için - Genel kurallar
Raporun Sayfa Sayısı	: 6
Açıklamalar	: Sadece Madde 9.13 Korozyon deneyi uygulanmıştır.

Yukarıda tanımlanan numune için laboratuvarımızda yapılan muayene ve deneylerden OLUMLU sonuç alınmış olup, ölçüm sonuçları müteakip sayfalarda verilmiştir.
The sample described above Passed the applied tests. The test results are given on the following pages.

Mühür / Seal	Tarih / Date	Deney Sorumlusu	Kontrol Eden / Reviewer	Onaylayan / Approved by
	02.09.15	Halil KURÇENLİ Tekniker	Safiye DEMİR Teknik Şef	Bülent ŞENTÜRK Laboratuvar Müdürü V.

ISO 9001 Quality Management

SZUTEST

SERTİFİKA

SZUTEST TEKNİK KONTROL VE BELGELENDİRME HİZM. TİC. LTD. ŞTİ.

Bu belge ile;

PANEL KABİN ELEKTRİK SİSTEMLERİ SANAYİ VE TİCARET LTD. ŞTİ.

AKÇABURGAZ MAH. 1575 SK. ALKOP SAN. SİT. C3 BLOK NO:9-10 ESENYURT İSTANBUL

ISO 9001:2008

Şartlarına uygun bir Kalite Yönetim Sistemine aşağıda belirtilen kapsam dahilinde sahip olduğunu onaylar.

ELEKTRİK PANO TASARIM, ÜRETİM, MONTAJ VE SATIŞI

EA Kodu	: 19
Belge No	: 11604901
Belge Yayın Tarihi	: 18.02.2016
Geçerlilik Tarihi	: 17.02.2017
Belgelendirme Periyodu Bitiş Tarihi	: 17.02.2019

Bu belge firmanın SZUTEST belgelendirme kurallarına uyduğu sürece geçerlidir. Belgelendirme periyodu 3 yıldır.

DEPARTMAN ŞEFİ

CE Certificate

Reference No/*Referans Nu.*: OSE – 12-0208/01

SZUTEST TECHNICAL INSPECTION and CERTIFICATION
Rely on Experience

ATTESTATION OF COMPLIANCE
UYGUNLUK ONAYI

The technical file and test reports of the following product have been checked and found in compliance with the Parliament and Council Directive 2006/95/EC of 12 December 2006 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.

Teknik dosya ve test raporları incelenerek, belirtilen ürünün Avrupa Birliği Teknik Komisyonu tarafından 12 Aralık 2006 tarihinde yayınlanan 2006/95/AT Belirli Gerilim Sınırları Dahilinde Çalışmak Üzere Tasarlanmış Teçhizat ile ilgili yönetmeliğine uygunluğu saptanmıştır.

Applicant: *Başvuru Sahibi:*	PANEL KABİN ELEKTRİK SİS. SAN. VE TİC. LTD. ŞTİ. *İkitelli Organize San. Böl. Demirciler Sit. B5 Blok No.119 Başakşehir, İstanbul, Türkiye*
Manufacturer: *Üretici:*	PANEL KABİN ELEKTRİK SİS. SAN. VE TİC. LTD. ŞTİ. *İkitelli Organize San. Böl. Demirciler Sit. B5 Blok No.119 Başakşehir, İstanbul, Türkiye*
Product: *Ürün:*	Electrical Panel *Elektrik Panosu*
Type/Model: *Tip/Model*	FS series , VT series , SS series *FS serisi , VT serisi , SS serisi*
Base of attestation: *Onay Dayanağı:*	File of technical documentation, *Test report No. 12-0208/01*

*The referred technical file(s) shows that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements listed EU Directive(s) above. Other relevant Directives have to be observed. This attestation does not abrogate the compulsory obligation of the manufacturer to issue the declaration of conformity.

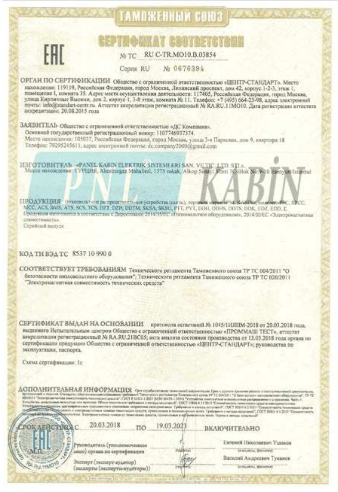
**Diğer ilgili direktiflere uyulmalıdır. Bu onay üreticinin uygunluk beyanı düzenleme zorunluluğunu ortadan kaldırmaz. Referans teknik dosya ile ürünün yukarıda belirtilen AT Direktiflerinin temel gereklerine uygunluğu kabul edilir.*

İstanbul, Date/Tarih 2012-02-16

Mehmet Işıklar
General Manager

SZUTEST
TEKNİK KONTROL BELGELENDİRME HİZM. TİC. LTD. ŞTİ.

Russian Standard EAC - GOST-R



ТАМОЖЕННЫЙ СОЮЗ

СЕРТИФИКАТ СООТВЕТСТВИЯ

EAC

№ ТС RU C-TR.MO10.B.03854

Серия RU № 0676384

ОРГАН ПО СЕРТИФИКАЦИИ Общество с ограниченной ответственностью «ЦЕНТР-СТАНДАРТ». Место нахождения: 119119, Российская Федерация, город Москва, Ленинский проспект, дом 42, корпус 1-2-3, этаж 1, помещение I, комната 35. Адрес места осуществления деятельности: 117405, Российская Федерация, город Москва, улица Кирпичные Выемки, дом 2, корпус 1, 3-й этаж, комната № 11. Телефон: +7 (495) 664-23-98, адрес электронной почты: info@standart-centr.ru. Аттестат аккредитации регистрационный № RA.RU.11MO10. Дата регистрации аттестата аккредитации: 20.08.2015 года

ЗАЯВИТЕЛЬ Общество с ограниченной ответственностью «ДС Компани». Основной государственный регистрационный номер: 1107746937374. Место нахождения: 105037, Российская Федерация, город Москва, улица 3-я Парковая, дом 9, квартира 18. Телефон: 79295245611, адрес электронной почты: dc.company2000@gmail.com

ИЗГОТОВИТЕЛЬ «PANEL KABIN ELEKTRIK SISTEMLERI SAN. VE TIC. LTD. STI.». Место нахождения: ТУРЦИЯ, Akcaburgaz Mahallesi, 1575 sokak, Alkop Sanayi Sitesi C3 Blok No:9-10 Esenyurt Istanbul

ПРОДУКЦИЯ Низковольтные распределительные устройства (щиты), торговой марки «PNL KABIN», модели: FPC, BPCC, MCC, ACS, BMS, ATS, SCS, TCS, DZT, DZH, DDTM, ŠKSA, SKSC, PTT, PYT, DDH, DDHS, DDTS, DDK, EDZ, EDD, E. Продукция изготовлена в соответствии с Директивами 2014/35/ЕС «Низковольтное оборудование», 2014/30/ЕС «Электромагнитная совместимость». Серийный выпуск

КОД ТН ВЭД ТС 8537 10 990 0

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ Технического регламента Таможенного союза ТР ТС 004/2011 "О безопасности низковольтного оборудования"; Технического регламента Таможенного союза ТР ТС 020/2011 "Электромагнитная совместимость технических средств"

СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ протокола испытаний № 1045/1ИЛПМ-2018 от 20.03.2018 года, выданного Испытательным центром Общество с ограниченной ответственностью «ПРОММАШ ТЕСТ», аттестат аккредитации регистрационный № RA.RU.21BC05; акта анализа состояния производства от 13.03.2018 года органа по сертификации продукции Общества с ограниченной ответственностью «ЦЕНТР-СТАНДАРТ»; руководства по эксплуатации, паспорта.

Схема сертификации: 1с

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

СРОК ДЕЙСТВИЯ С 20.03.2018 ПО 19.03.2023 ВКЛЮЧИТЕЛЬНО

Руководитель (уполномоченное лицо) органа по сертификации — Евгений Николаевич Ушаков

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)) — Василий Андреевич Туканов

Trademark Registration Certificate

T.C.
TÜRK PATENT ENSTİTÜSÜ

MARKA TESCİL BELGESİ

Marka No : 2014 88671 - Ticaret - Hizmet

PNL KABİN

Marka Sahibi	:PANEL KABİN ELEKTRİK SİSTEMLERİ SANAYİ VE TİCARET LİMİTED ŞİRKETİ TÜRKİYE CUMHURİYETİ Akçaburgaz Mah. 1575. Sok. Alkop Sanayi Sitesi C3 Blok No: 9-10 ESENYURT İSTANBUL
Emtiası	: 06 , 09 , 37 İlişiktedir.

Markaların Korunması Hakkında 556 Sayılı Kanun Hükmünde Kararnameye göre 02/11/2014 tarihinden itibaren ON YIL müddetle 10/11/2015 tarihinde tescil edilmiştir.

Prof. Dr. Habip ASAN
Enstitü Başkanı

TÜRK PATENT ENSTİTÜSÜ

ISO 14001 Environmental Management

PCA

Certificate

ISO 14001 : 2015

PANEL KABİN ELEKTRİK SİSTEMLERİ SAN. VE TİC. LTD. ŞTİ.

Akçaburgaz Mah. 1575 Sk. 3 C 9 Esenyurt/İstanbul/TÜRKİYE/TURKEY

SCOPE

Design, production, installation and sale of electrical panels

EA CODE
18-19-29

IAS ACCREDITED
Management Systems Certification Body
MSCB-103

PCA Certification Approval

ISO 45001 Occupational Health and Safety

PCA

Certificate

ISO 45001 : 2018

PANEL KABİN ELEKTRİK SİSTEMLERİ SAN. VE TİC. LTD. ŞTİ.

Akçaburgaz Mah. 1575 Sk. 3 C 9 Esenyurt/İstanbul/TURKEY

SCOPE

Design, production, installation and sale of electrical panels

PCA Certification Approval

Seismic IEC 60068-3-3 ,60068-2-57 and 60068-2-6 Zone4

TEST SUBMISSION
DOCUMENT

Allianz | Allianz Teknik

SEISMIC TEST OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Manufacturer Of Test Item/Address	: Panel Kabin Elektrik Sistemleri San. Tic. Ltd. Şti. Akçaburgaz Mah. 1575 Sok. AlkopSanayi Sitesi C3 Blok No: 9-10 ESENYURT / İSTANBUL
Name And Identity Of Test Item	: DZT Series Modular Free Standing Enclosure Form, Model Number: 48 IP55 4000A
The Date Of Test	: 15.06.2022
Applied Standards	• EN IEC 60068-3-3 Environmental testing - Part 3-3: Supporting documentation and guidance - Seismic test methods for equipment. *Seismic test within the scope of this standard was carried out with Zone 4 ground acceleration.* • EN 60068-2-6 Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal) • EN 60068-2-57 Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time-history and sine-beat method
Mounting	: The mounting standard is EN 60068-2-47 Environmental testing Tests. Mounting of specimens for vibration, impact and similar dynamic.
Laboratory Name/Address	: Allianz Teknik accredited by TÜRKAK under registration number AB-1601-T for EN ISO/IEC 17025 as test laboratory. Türk-Alman Üniversitesi Şahinkaya Cd. No: 90, 34820 Beykoz / İstanbul
Reference No. Of Test Report/Date	: EQ-AZTEK-22-049-1
Result	: Zone 4 & Criteria 0 for EN IEC 60068-3-3 standard

*For further information please see the test report.
This document was prepared upon request according to the mentioned test report(s) above and represents only tested sample(s). This certificate does not represent any "Product Certificate" or "Certificate of Conformity". This certificate does not give permission to use the brand of Allianz Teknik, also does not represent the batch.

Erkan ÖZDAĞ
Allianz Teknik Manager

Seismic (Earthquake) Certificate UL AC-156 American Standard

TEST SUBMISSION
DOCUMENT

Allianz | Allianz Teknik

SEISMIC TEST OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Manufacturer Of Test Item/Address	: Panel Kabin Elektrik Sistemleri San. Tic. Ltd. Şti. Akçaburgaz Mah. 1575 Sok. AlkopSanayi Sitesi C3 Blok No: 9-10 ESENYURT / İSTANBUL
Name And Identity Of Test Item	: DZT Series Modular Free Standing Enclosure Form, Model Number: 48 IP55 4000A
The Date Of Test	: 15.06.2022
Applied Standards	ICC-ES AC 156 Acceptance Criteria For Seismic Certification By Shake-Table Testing Of Nonstructural Components. *Seismic test within the scope of this standard was carried out with Sds-2 ground acceleration.*
Mounting	: The mounting standard is EN 60068-2-47 Environmental testing Tests. Mounting of specimens for vibration, impact and similar dynamic.
Laboratory Name/Address	: Allianz Teknik accredited by TÜRKAK under registration number AB-1601-T for EN ISO/IEC 17025 as test laboratory. Türk-Alman Üniversitesi Şahinkaya Cd. No: 90, 34820 Beykoz / İstanbul
Reference No. Of Test Report/Date	: EQ-AZTEK-22-049-2
Result	: The test provides requirements of Sds=2 & z/h = 1 in accordance with ICC-ES AC 156 standard.

*For further information please see the test report.
This document was prepared upon request according to the mentioned test report(s) above and represents only tested sample(s). This certificate does not represent any "Product Certificate" or "Certificate of Conformity". This certificate does not give permission to use the brand of Allianz Teknik, also does not represent the batch.

Erkan ÖZDAĞ
Allianz Teknik Manager

ADP Main Power Distribution Panels

General Information

Explanation	Applicable Qualification
Trademark	PNL Kabin
According to Place of Use	LV Power Distribution Equipment
Place of use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP55 / IP65
Internal Protection Degree (IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group is measured on a project basis.

It is used to command and control the system appropriately in shopping malls, industrial facilities, smart buildings, treatment plants, and all areas where LV power control is required.

It is a critical type of electrical panel that allows the electrical energy of the building or facility to be taken from the incoming power line and distributed to different electrical circuits and sub-panels of the building. ADP panels are designed by taking into account the dynamic forces created by the on-off maneuvers of high-breaking capacity breakers up to 6300A applications. In electrical installation, electrolytic copper busbars suitable for total power and short circuit currents are selected and supported at appropriate intervals within IEC 61439-2 and TS 3367 standards.
In accordance with IEC 61439-2 standards, auxiliary separators and switches from Form 2a to Form 4b Type 7 can be formed with the help of accessories for operational safety.

Main Distribution Point: The main distribution panel is usually connected to a building or facility's primary energy supply source. This source can be the main line of the power grid or a large energy converter such as a transformer.

Distribution of Electrical Energy:ADP distributes incoming electrical energy to different areas or circuits of the building. These zones include lighting, outlets, HVAC (heating, ventilation, and air conditioning), machinery, and other loads.

Circuit Breakers or Fuses: ADP includes circuit breakers or fuses to energize and protect different circuits. Each circuit provides protection in case of overcurrent.

Power Capacity: The ADP must have the power capacity appropriate to the needs of the building or facility. This is important to meet the maximum energy demands of the building.

Protection and Safety: The main distribution panel monitors and controls overcurrent, overvoltage, and other hazardous conditions. This prevents electrical fires and safety risks.

Automation Capabilities: Some modern ADPs have automation features for energy management and monitoring. This improves energy efficiency and offers remote monitoring.

Redundancy and Stability: The main distribution panel can have redundancy in case of power outages, ensuring a continuous energy supply.

Distribution of Electrical Energy: ADP distributes incoming electrical energy to different areas or circuits of the building. These zones include lighting, outlets, HVAC (heating, ventilation, and air conditioning), machinery, and other loads.

Technical Details

Explanation	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating voltage(Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000KVA / 6300A
Frequency(Fn)	50 HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification	A Class
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halogen Free, H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Overfit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed

It is a type of electrical panel used to compensate electrical energy in order to provide energy efficiency and power factor improvement.

These panels, which are used to compensate the system in the most appropriate way, are projected to IEC 60617 standards by our expert team. RPCC panels are designed for applications up to 2500 KVA, taking into account harmonics and the most appropriate stepping options. In electrolytic assembly, electrolytic copper busbars suitable for total power and short circuit currents are selected and supported at appropriate intervals within IEC 61439-1 and TS 3367 standards.

Power Factor Improvement: The main purpose of compensation panels is to improve the power factor. Power factor measures the efficiency of an electrical circuit and means that in an ideal situation (considered to be 1), all energy is converted into active power. However, many industrial loads generate inductive (reactive) power, causing the power factor to decrease. The compensation panel increases the power factor by balancing this reactive power.

Capacitors: The compensation board usually contains large capacitors. These capacitors help balance reactive power. Inductive loads in industrial facilities enable capacitors to consume reactive power, which increases the power factor.

Energy Efficiency: Power factor improvement increases energy efficiency. A higher power factor means less reactive power generation and lower losses. This can reduce energy costs.

Protection and Control: Compensation panels ensure safe operation of capacitors. Additionally, these panels contain protection and control devices and monitor and control overcurrent, overvoltage and other hazardous conditions.

Remote Monitoring and Control: Modern compensation panels can be integrated with remote monitoring and control systems. In this way, energy management becomes more efficient.

Industrial and Commercial Use: Compensation panels are used in many different places such as industrial facilities, shopping malls, hotels and large buildings. Especially large industrial facilities are places where the power factor must be improved regularly.

General Information

Explanation	Applicable Qualification
Trademark	PNL Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP55
Internal Protection Degree(IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

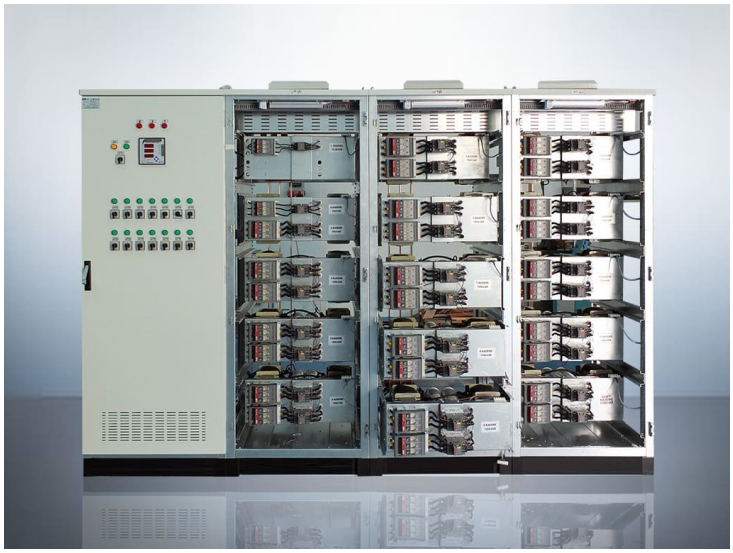
Standard Dimensions

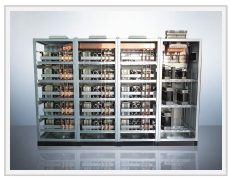
This product Group Project Is Measured From Some.

Technical Details

Explanation	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage (Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	2500KVAR / 4000A
Frequency(Fn)	50 HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	A Class
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halojen Free , H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Over Fit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed

WRPCC Withdrawable Compensation





General Information

Explanation	Applicable Qualification
Trademark	PNL Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP54 / IP65
Internal Protection Degree (IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group is measured on a project basis.

Compared to standard compensation panels, the fact that the stages are withdrawable provides the opportunity to intervene in the panel without being exposed to a power outage in case of malfunction and maintenance. With the regular placement of capacitors, up to 500kvar power can be obtained in one panel.

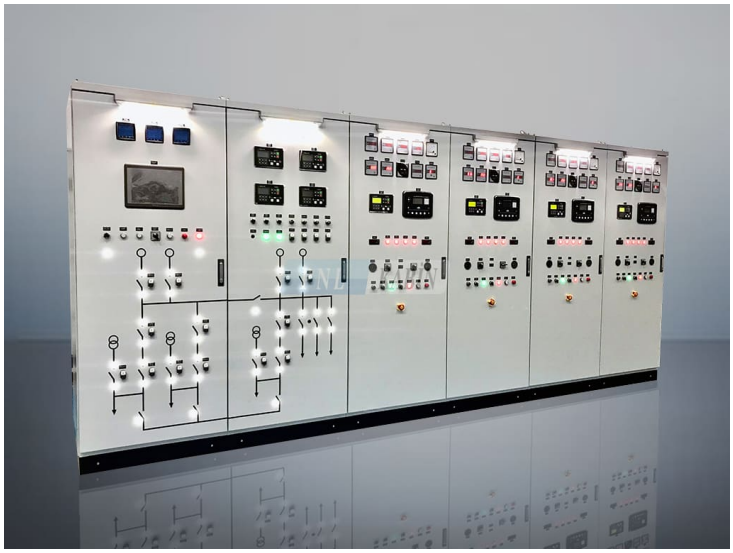
Withdrawable Compensation panels play an important role in energy efficiency and power factor improvement. A properly designed and maintained compensation panel can reduce energy consumption, lower energy costs and ensure safer and more efficient operation of electrical facilities.

Drawer modules can be removed and installed thanks to their socket structure, providing the user with greater ease of use compared to wired systems. In order to remove the drawer for repair or maintenance purposes, the security pin must first be removed. Drawer types vary depending on the shunt reactor, harmonic filter and capacitor sizes to be used inside. The most suitable drawer is offered to the user according to the project.

WRPCC panels are designed for applications up to 2500 KVA, taking into account harmonics and the most appropriate stepping options. In electrolytic assembly, electrolytic copper busbars suitable for total power and short circuit currents are selected and supported at appropriate intervals within IEC 61439-1 and TS 3367 standards. Withdrawable Compensation panels play an important role in energy efficiency and power factor improvement.

Technical Details

Explanation	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage(Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	2500KVAR / 4000A
Frequency(Fn)	50 HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	Class A
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halogen Free, H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Overfit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed



General Information

Explanation	Applicable Qualification
Trademark	PNL Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP54 / IP65
Internal Protection Degree (IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product Group Project Is Measured From Some.

Synchronization panels are an electrical panel used to synchronize and combine energy in facilities with more than one transformer and generator system.

The most essential feature of generator synchronization systems is that one or more generators work on the same power line with another generator or network and share the load.

This simultaneous operation is achieved by controlling the amplitude, frequency, and phase angle of the generator's voltage signal. These parameters are adjusted and retained according to the system to be installed, the type of application, and the produced welding voltage is transmitted to the facility via switching elements (switches).

Synchronization Process: Synchronization panels are used to synchronize different power sources (e.g., generators, alternative energy sources, or separate electrical grids). Synchronization involves matching parameters such as frequency and phase angle so that electrical energy from different sources can be combined seamlessly.

Power Backup and Stability: Synchronization boards synchronize backup power supplies with the mains during power outages or other issues. This is important to maintain electricity stability and reduce outage time.

Coordination and Control: Synchronization boards are used to coordinate and control different power supplies. This optimizes the operation of the electrical grid and increases energy efficiency.

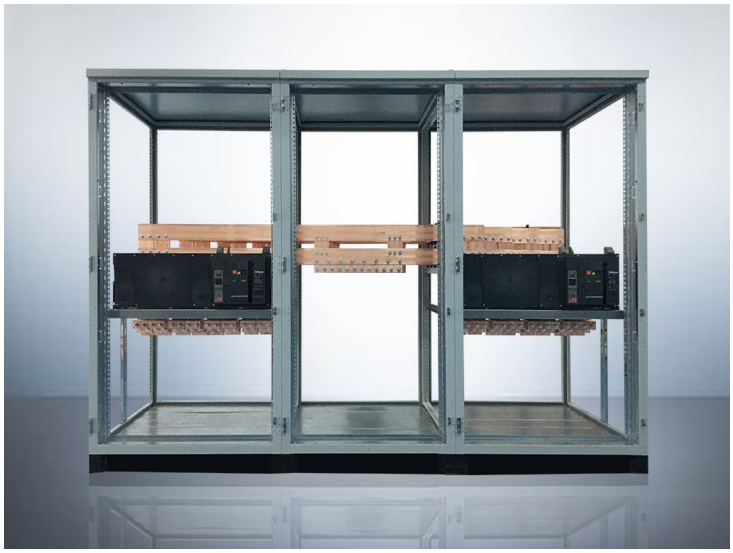
Automation: Modern synchronization panels can be integrated with automation systems. This makes the synchronization process more efficient and reduces human intervention.

Safety and Protection: Synchronization boards enable safe and trouble-free coupling of power supplies. Additionally, it monitors and protects against overcurrent, overvoltage, and other hazardous conditions.

Energy Distribution: Synchronization panels help distribute energy evenly within or between facilities. This allows energy to be shared between specific loads.

Technical Details

Explanation	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage (Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000A
Frequency(Fn)	50 HZ ve 60HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	Class A
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance:	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halogen Free, H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Over Fit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed



General Information

Explanation	Applicable Qualification
Trademark	PNL Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP54 / IP65
Internal protection Degree (IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group is measured on a project basis.

It allows electrical energy to switch automatically between the grid and the generator. It aims to provide continuous and uninterrupted energy during outages or problems in the electricity network.

ATS panels, up to 6300A applications, are designed considering the dynamic forces created by the opening and closing maneuvers of high-breaking capacity breakers.

Under normal conditions, the load line is fed directly from the grid when there is electrical energy. However, when the mains electricity is interrupted and has poor energy quality (energy drop or fluctuation, etc.), the generator comes into play and continues to feed the load line. After the mains energy returns to its ordinary course, the load line feed is transferred back to the network, and the generator is disabled. The systems that perform this transfer are provided with transfer panels. It ensures that operations continue in hospitals, data centers, and other applications.

Switching Function: Automatic Transfer Panels perform an automatic switching function between the primary power source (usually the mains or generator) and the backup power source (usually a generator). If the direct power supply fails or a specific parameter (e.g., voltage or frequency) exceeds limits, the automatic transfer panel switches to the backup power supply.

Uninterruptible Power Supply: ATSs ensure a continuous uninterrupted electrical power supply. This ensures continued uninterrupted operation in critical facilities, hospitals, data centers, and other application areas.

Automation and Monitoring: Modern automatic transfer panels can be integrated with automation systems and monitored remotely. In this way, it ensures that transitions between power sources are made automatically and under control. It also provides information to diagnose system errors and monitor resources.

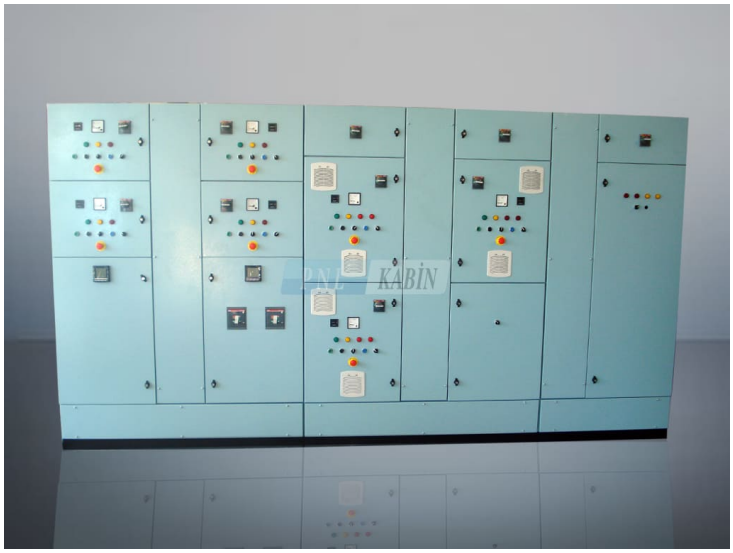
Bidirectional Functionality: Some automatic transfer panels offer bidirectional functionality in controlling the energy load. This means switching electricity from the primary power source to the backup power source and vice versa.

Backup Power Supplies: Automatic Transfer Panels make it easier to use backup power sources (such as generators). This is especially important in areas where power outages are frequent or in emergency situations.

Protection and Safety: ATSs ensure safe switching of power supplies and monitor and control overcurrent, overvoltage, and other hazardous conditions.

Technical Details

Explanation	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage(Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000A
Frequency(Fn)	50 HZ and 60HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	Class A
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance:	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halogen Free, H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Over Fit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed



General Information

Explanation	Applicable Qualification
Trademark	PNL Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP54 / IP65
Internal protection degree(IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group project Is measured from some.

It has vast usage opportunities in all areas of intense motor control, such as production lines, factories, smart buildings, treatment facilities, and pump stations.

MCC panels are our panel groups used in control and command centers where the motors are fed. Motor Control Center (MCC) panels are special electrical panels used to control and protect large and complex electric motors in industrial facilities. MCC panels organize, control, and preserve electrical circuits to ensure motors' safe and effective operation.

Motor Control: MCC panels control the operation of industrial motors. These motors are used in conveyor systems, pump stations, compressors, and similar applications.

Circuit Protection: MCC panels monitor and protect against overcurrent, overheating, short circuits, and other dangerous conditions for motors and other devices. This prevents device damage or safety hazards.

Control Systems: MCC panels contain control devices to control motors' speed, direction, and status. These control systems allow operators to control engines remotely or on-site.

Energy Efficiency: MCC panels can be designed to increase energy efficiency. Engine start and stop can be made more efficient and help use energy resources more effectively.

Automation and Remote Monitoring: MCC panels can be integrated with automation systems and remote monitoring systems. In this way, engine control and monitoring processes are made more efficient.

Technical Details

Explanation	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage(Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in main circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000A
Frequency(Fn)	50 HZ and 60HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	Class A
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance:	Electrolyte Flat (57-58uS)
Cable Type and Feature	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halogen Free, H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Over Fit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed

General Information

Explanation	Applicable Qualification
Trademark	Pnl Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP54 / IP65
Internal Protection Degree (IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group project is measured from some.

It is designed to command and control energy measurement and security in the most appropriate way in public housing, business centers and shopping malls.

Meter Panels meet the meter sealing requirements, taking into account the acceptance criteria of the electricity company.

Energy Meters and Measuring Devices: Meter panels contain energy meters and measuring devices used to measure electrical energy consumption. These devices are used to determine how much of the service is consumed.

User Consumption Information: Meter panels allow users to monitor energy consumption over a period of time. This information is important for billing, data analysis, and energy efficiency efforts.

Remote Reading and Monitoring: Can be integrated with remote reading and monitoring systems. This makes it easy to retrieve and monitor meter information remotely and ensures fast service.

Billing and Revenue Collection: Helps service providers bill users accurately. This enables revenue collection to cover the costs of services.

Data Analysis: Data collected by meter panels contains important information about energy consumption and usage patterns. This data can be used to improve energy efficiency and optimize energy management strategies.

Protection and Security: Meter panels can be designed to protect against energy theft. It also protects the safe operation of meters and consumption information.

Customizability: Meter panels can be customized to suit different metering needs and service types. For example, a commercial facility's energy meter panel may have different requirements than a home's energy meter panel.

Technical Details

According to Facility Conditions	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage(Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000A
Frequency(Fn)	50 HZ and 60HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	Class A
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halojen Free , H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Overfit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed

GES Solar Power Plant Panels

General Information

Explanation	Applicable Qualification
Trademark	Pnl Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor or Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP54 / IP65
Internal Protection Degree (IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group project is measured from some.

Today, one of the renewable energy systems is Solar Energy. Solar ADP panels are one of the most important components of the solar energy system. The operating voltage of Solar Panels can be produced as 800VAC according to customer demand.

The electricity produced by the solar panels is converted into AC power by an inverter and collected in Field Panels located next to the solar panel banks on the field. The energy obtained from the panels on the field is transferred to the Solar Main Distribution Panel located next to the transformer.

Energy Production and Monitoring: The solar power plant ADP panel provides control of inverters that convert solar energy from photovoltaic panels into electrical energy. These panels are a central control point where the energy produced by solar panel arrays is collected and directed to the grid or storage systems.

Data Collection and Monitoring: Solar panels collect and visually present data from sensors used to monitor solar panel performance. This is important for monitoring the efficiency of the solar power plant and determining maintenance requirements.

System Security: The solar power plant ADP panel accommodates various protection and monitoring functions to ensure system security. Detects and protects against overvoltage, overcurrent, short circuit and other safety hazards.

Remote Monitoring and Control: Can be integrated with remote monitoring and control systems. In this way, solar power plant operators can monitor system performance remotely and intervene when necessary.

Automation: Solar power plant ADP panels have automation capabilities to optimize system operation. For example, it can automatically perform operations such as adjusting the viewing angles of panels or changing the inverter capacity.

Data Analysis: Data collected from the system can be used to provide information such as performance analysis and energy production data. This data can be used to improve energy efficiency and optimize solar power plant operations.

Technical Details

According to Facility Conditions	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage (Ue)-1	400 V AC
Operating Voltage (Ue)-2	800 V AC
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000A
Frequency(Fn)	50 HZ and 60HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	Class A
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halogen Free, H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Overfit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed

General Information

Explanation	Applicable Qualification
Trademark	Pnl Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP54 / IP65

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group project is measured from some.

Construction Site Panels and Socket Panels are types of panels that provide electricity distribution in construction sites and temporary work areas and help eliminate the need for electricity. When the construction site is finished, the task of this panel automatically ends.

Construction site and socket panels are generally outdoor panels. It is made to receive electricity at the construction site, IP protection classes are made according to customer demand. . For long-term durability, the construction site panel must have a polyurethane cast gasket. There should be a protective hat on the panel to prevent dust, moisture and rain.

Construction Site Panels

Electricity Distribution: Construction site panels provide the distribution of electrical energy at the construction site. These panels provide electrical energy to electrical loads on the construction site, including lighting, power tools and grid-connected equipment such as temporary offices.

Power Capacity: Construction site panels often have a large energy capacity and offer multiple outlets and circuits to meet different needs.

Protection and Safety: Şantiye panoları, aşırı akım, aşırı gerilim ve kısa devre gibi tehlikeli durumları tespit edip kontrol ederek işçi güvenliğini sağlar. Bu panolar ayrıca hava koşullarına ve çevresel etmenlere dayanıklı olmalıdır.

Portability: Construction site panels can be portable according to workers' needs so that the energy source can be easily transported to the work site.

Socket Panels

Distribution Center: Socket panels are the central points of electricity distribution at the construction site. They are usually housed in steel boxes and make it easier for workers to access electrical energy.

Number of Sockets: Socket panels have multiple socket outlets to meet the power needs of workers. The number of sockets may vary depending on the number of workers and need.

Circuit Breakers: Receptacle panels contain circuit breakers and are used to shut off electricity in the event of overcurrent or other safety hazards.

Protection and Security: Socket panels are designed to ensure worker safety and facilitate access to frequently used sockets. Additionally, the protective covers of the panels prevent workers from contacting them.

Portability: Socket panels can also be portable, making them easy for workers to use at different job sites.

Technical Details

According to Facility Conditions	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage(Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000A
Frequency(Fn)	50 HZ and 60HZ
Number of Poles	3 or 4
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Cable Type and Feature	Nyaf Halogen Free, H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Overfit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed

MDP Store Distribution Panels

General Information

Explanation	Applicable Qualification
Trademark	Pnl Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP55 / IP65
Internal Protection Degree (IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group project is measured from some.

These are electrical panels used in commercial stores and retail businesses. MDP is designed to control electrical energy distribution in stores and manage various electrical loads within the store.

Electrical Distribution: MDP, Store distribution panels provide power to various electrical loads inside the store. These loads include lighting, air conditioning, refrigeration equipment, electronic devices and other electrical equipment.

Load Control: Used to control and monitor electrical loads within the store. This ensures energy efficiency and optimizes energy consumption.

Sockets and Circuit Breakers: MDP panels contain receptacle outlets and circuit breakers. This is used to adjust electrical loads and provide power outages for safety purposes.

Power Capacity: It has sufficient power capacity to meet the electricity needs in the store. This is important to meet the store's electrical requirements.

Protection and Safety: MDP panels ensure worker safety by detecting and controlling overcurrent, overvoltage and other dangerous situations. It also provides protection to prevent fire and electrical malfunctions.

Control and Monitoring: It offers store owners or business owners the opportunity to monitor and control their electrical loads. This helps them determine energy management and maintenance requirements.

Customizability: Distribution Panels can be customized to suit the needs of the store. It can be designed considering the size, type and equipment used of the store.

Technical Details

According to Facility Conditions	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage(Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000A
Frequency(Fn)	50 HZ and 60HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	Class A
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halojen Free , H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Overfit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed

DSP Flat Type Fuse Panels

General Information

Explanation	Applicable Qualification
Trademark	Pnl Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP55
Internal Protection Degree (IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group project is measured from some.

These are electrical panels used to control, monitor and protect the electrical system of a house or flat. These panels organize the various electrical circuits in the home and distribute energy from power sources to different electrical loads.

Fuses or Circuit Breakers: Flat type fuse panels contain fuses or circuit breakers to protect and control each electrical circuit. This prevents fire and other safety hazards by cutting off electricity in the event of overcurrent.

Electrical Distribution: These panels distribute electricity from energy sources among various loads within the apartment. It provides energy to different electrical loads such as lighting, sockets, kitchen appliances, heating and cooling systems.

Main Switch: Apartment type fuse panels usually have a main switch. This switch has the function of closing or opening all apartment electrical circuits. It allows you to quickly cut off all electrical energy in emergency situations.

Apartment Monitoring and Control: Fuse panels can have smart features and be integrated with remote monitoring and control systems. This provides homeowners with information about energy consumption and security and allows them to control their home remotely.

Protection and Security: Fuse panels ensure user safety by detecting and controlling overcurrent, overvoltage and other dangerous situations. Additionally, it reduces the risk of fire.

Customizability: Apartment type fuse panels can be customized to suit the needs of the home. Homeowners or electricians can adjust the panel's fuse or circuit breaker capacities, number of outlets, and other features.

Technical Details

According to Facility Conditions	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage(Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000A
Frequency(Fn)	50 HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	Class A
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halojen Free , H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Overfit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed

General Information

Explanation	Applicable Qualification
Trademark	Pnl Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP54 / IP65
Internal Protection Degree (IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group project is measured from some.

These are our panel groups designed to control all kinds of technological applications in industrial facilities in the most appropriate way.

Panels containing a Programmable Logic Controller (PLC) are generally defined as automation control panels. Our company produces PLC, DCS and SCADA comprehensive automation panels in automation systems, specially designed automation panels for your projects and assembly solutions in accordance with standards. Automation panels are the automation and control systems in industrial enterprises or facilities. These are electrical panels used to manage and monitor. These panels are used to ensure the coordination of machine control, data collection, business processes and automation systems. Automation dashboards analyze data from sensors, take action and present the results to business owners or operators.

Control and Monitoring: Automation panels provide control and monitoring of machines and processes in industrial enterprises. These panels are used to increase production line efficiency, reduce errors and optimize business processes.

Sensors and Actuators: Automation panels collect data from sensors located within the factory or facility and provide the necessary response through actuators. For example, it monitors data such as temperature, pressure or speed and makes appropriate adjustments.

Data Collection and Analysis: Automation dashboards are used to monitor production processes and record data. This data gives business owners the ability to make better decisions.

Programmability: Automation dashboards enable users to program business processes. This means that processes can be modified and optimized.

HMI (Human-Machine Interface): Automation panels may include HMI interfaces to help operators visually monitor and control production processes.

Remote Monitoring and Control: Modern automation panels can be integrated with remote monitoring and control capabilities. This makes it easier for operators to solve problems and manage processes by providing remote access.

Data Integration: Automation dashboards facilitate data integration with other business systems and ERP (Enterprise Resource Planning) software.

Technical Details

According to Facility Conditions	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating Voltage(Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in Main Circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000A
Frequency(Fn)	50 HZ and 60HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	Class A
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance	Electrolyte Flat (57-58uS)
Cable Type and Feature	HF Heat Shrink Tubing or KE Overfit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed

General Information

Explanation	Applicable Qualification
Trademark	PNL Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments
Main Busbar Short Circuit Breaking Withstand Current	Icw 100 kA
Short Circuit Peak Withstand Current to Main Busbar	Ipk 220 kA
Hardware Internal Allocation Format	Form 1 / Form 2b (2a) / Form 3b (3a) / Form 4b (4a)
Mechanical Impact Protection Class	IK 10
External Protection Degree (IP)	IP31 / IP41 / IP54 / IP65
Internal Protection Degree (IP)	IP30

Certificates

Applicable Standards
Full Type Test IEC EN 61439-1/2 4000A 100kA Form 4B Low voltage switching and control equipment
TSE EN 61439-1/2 Low voltage switching and control equipment
TSE EN 62208, IEC EN 62208 Empty Enclosures - Low voltage switching and control equipment
Degree of Protection Provided in TSE EN 60529, IEC EN 60529 Enclosures (IP Code)
TSE EN 62262, IEC EN 62262 Protection Degrees Provided by the Enclosure of Electrical Equipment Against External Mechanical Impacts (IK Code)
Control and Protection Scheme for TSE EN 60670-1/24, IEC EN 60670-1/24 Fuse and Vending Boxes
Turkak ISO 9001-2008 Quality Management System
Gost-R ,EAC Russia Declaration
CE 2006-95AT Low Voltage Directive
2014 88671 Trademark Registration
IEC EN 60068-3-3 IEC EN 60068-2-57 IEC EN 60068-2-6 ZONE-4 Criterion 0 Seismic (Earthquake) Certificate
UL ICC-ES AC 156, IEC EN 60068-2-47 Seismic (Earthquake) Certificate
ISO 140001:2015 Environmental Management System
ISO 450001:2015 Occupational Health and Safety Management System
Turkak Measuring and Testing Devices Calibration Certificates

Standard Dimensions

This product group is measured on a project basis.

It is designed to control secondary outlets most appropriately for all kinds of automation and security applications in Industrial and Residential applications.

It is the type used in ADP panel outputs. TCS panels are chosen as floor distribution panels in projects. They meet the energy needs of switch units, sockets, lighting, and other loads.

Switches and Circuit Breakers: Subdistribution panels contain switches, circuit breakers, or fuses to power and direct energy to subpanels. There is a separate circuit breaker or switch for each circuit or section.

Sub-panels: Sub-distribution panel allows positioning and connections of sub-panels. These sub-panels are used to control specific sections or functions. For example, in a workplace, different subpanels may be used for office lighting, sockets, and machines.

Protection and Security: Subsidiary distribution panels monitor and control overcurrent, overvoltage, and other dangerous situations. This protects electrical systems and user safety.

Energy Distribution: Secondary distribution panels ensure energy is distributed balancedly among various loads. This prevents overload and ineffective use of energy resources.

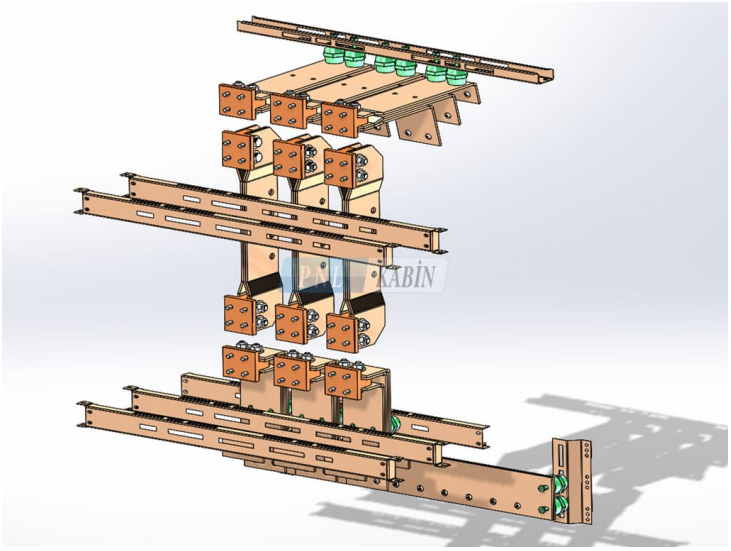
Remote Monitoring: Modern sub-distribution panels can be integrated with remote monitoring systems. This way, energy consumption and the panel's status can be monitored remotely.

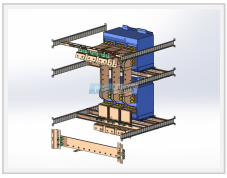
Customizability: Subdistribution panels can be customized to suit the needs of the building or facility. The capacity, number of circuits, and other features of electrical panels can be customized.

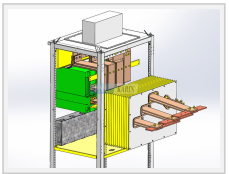
Technical Details

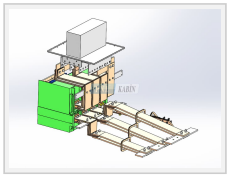
Explanation	Applicable Qualification
According to Facility Conditions	Indoor/Outdoor Fixed Equipment
By Electric Shock	Authorized Personnel
Operating voltage(Ue)	400 V AC 3 PHASE+Neutral+Ground
Impact Resistance Back (Uimp) in main circuits	8 kV
Impact Resistance Back (Uimp) in Auxiliary Circuits	8 kV
Insulation Voltage(Ui)	690 V
Mains Frequency Withstand Voltage	1000 V
Hardware Operating Current(Ina)	4000A
Frequency(Fn)	50 HZ and 60HZ
Number of Poles	3 or 4
Electromagnetic Compatibility (EMC) Classification Type	Class A
Hardware Operating Temperature	.5/+35(ort24H)___max+40
Hardware Working Height (m)	2000<
Pollution Degree	3
Hardware Cooling Type (Natural/Forced)	Natural/ALGEBRIC
Busbar Sections Brand/Resistance:	Electrolyte Flat (57-58uS)
Cable Type and Feature	Nyaf Halojen Free , H07Z1-K
Cable Labeling	HF Heat Shrink Tubing or KE Over Fit
Control Cable Colors	Color codes suitable for the project
Bolt Type	Zinc Coated 8.8 Grade
Connection Terminal Type	Push in Spring Pressed or Screwed

BKT Copper Busbar Designs









General Information

Explanation	Applicable Qualification
Trademark	PNL Kabin
According to Place of Use	LV Power Distribution Equipment
Place of Use	Indoor & Outdoor Environments

Certificates

Applicable Standards
BS EN 13601:2021 Copper and copper alloys.
Turkak ISO 9001-2008 Quality Management System

Standard Dimensions

Width (mm)	Height (mm)
160	10
120	10
100	10 / 5
80	10 / 5
60	10 / 5
50	10 / 5
40	10 / 5
30	10 / 5 /
20	10 / 5 / 3

Copper busbars are copper strips used to transmit electric current in electrical panels. Three-dimensional design is the digital modeling and design of these panels or copper bars in a three-dimensional environment.

During this design process, the dimensions, location, assembly and other details of the panel or copper bars are determined using CAD (Computer-Aided Design) software. This way, designers can better understand how the board or copper bars will look in the real world, how they will work, and how they will be assembled. This design process is important to increase the functionality of the product, reduce assembly errors and reduce production costs.

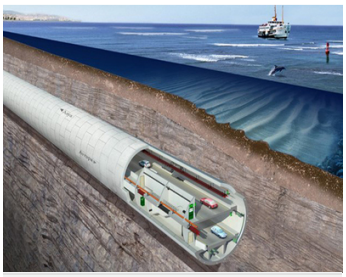
Technical Details

Explanation	Feature
Busbar Sections Brand/Resistance	Electrolyte Flat (57-58uS)
Copper Busbar Coating	Heat Shrink Tube
	Paint
	Tin Plating

References

SPORTS FACILITIES

METRO LINES, AIRPORT



TUNNELS, BRIDGES, HIGHWAYS

HOUSING PROJECTS

HOSPITALS

SHOPPING MALLS

POWER PLANTS

HOTELS

BANKS AND FINANCIAL INSTITUTIONS

FOOD INDUSTRY

AIR CONDITIONING - COOLING INDUSTRY

INDUSTRIAL FACILITIES, FACTORIES

HEALTH SECTOR

TURKCELL

COMMUNICATIONS SECTOR

PUBLIC INSTITUTIONS

Our Production Technology

Sheet Metal Processing CNC Punch Machine

Sheet Metal Processing CNC Press Brake-1

Sheet Metal Processing CNC Press Brake-2

Sheet Metal Processing CNC Polyurethane Gasket Machine

Sheet Metal Processing Guillotine Scissors

Sheet Metal Processing Electrostatic Powder Coating

Sheet Metal Processing Hydraulic Punch Press

Sheet Metal Processing Gas Welding Machines

Sheet Metal Processing Spot Machines

Sheet Metal Processing Stud Welding Machines

Sheet Metal Processing Tig Welding Machine

Sheet Metal Working Surface Cleaning Machines

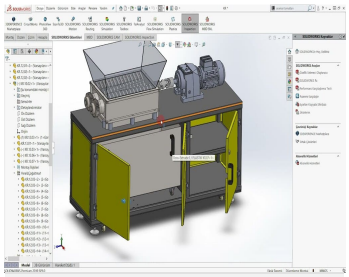
Sheet Metal Processing Eccentric Presses

General Pneumatic Air Machines

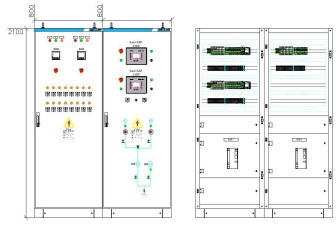
General Pneumatic Compressed Air System

General Generator

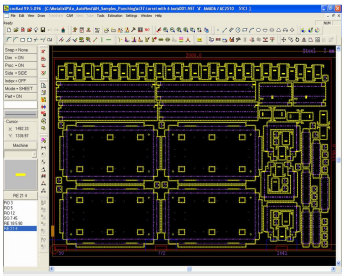
General ERP Enterprise Resource Planning



General 3D Design Program



General Cad Drawing Programs



General CAM Sheet Metal Processing Program

General Transport and Stacking Machines

Electroassembly CNC Copper Machining

Electroassembly Copper Processing

Electromontage Automatic Cable Cutting

Electromontage Labeling Laser Engraving Machine

Electromontage Labeling Cable Tube

General Testing and Calibration Devices

Electromontage Labeling Plotter

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