



europa**PANEL**

LOW VOLTAGE – HIGH QUALITY



Europower Enerji ve Otomasyon Teknolojileri San. Tic. A.Ş.



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ABOUT US



01

IN TURKEY
**THE BEST
SOLUTION
PARTNER**

"always at your service"



Europower Export Activities



Since 1999, As Europower Enerji A.Ş. and our group of companies parent, Girişim Elektrik A.Ş. we are one of the leading group companies in engineering, sales & marketing of Turkey's electrical energy sector and the entire region. Again As Europower Enerji A.Ş. , we continue to direct the sector with our knowledge and experience of more than 20 years and successfully represent our country worldwide with our innovative understanding.

We continue to produce and sell all necessary LV, MV and HV products for the generation, distribution and transmission of electricity at our 4 factories with 35.000 m² usable closed area and 45.000 m² open area equipped with the latest technology in Ankara, Kahramankazan.

We offer a wide range of services and products to a large number of high profile customers within Turkey and Worldwide in many sectors. We have been successfully working on many projects in 70 countries on 5 continents all over the world. Our group, which consists of more than 160 engineers, most of which are electrical engineers, offers products and services to meet the demands of different markets globally with more than 1600 staff, excluding active construction sites. With our qualified and customer-focused team, we offer a fast and unlimited supply chain for all kinds of needs of our customers in LV, MV, HV electrical products and systems.

"Our group; is the primary turnkey contractor, manufacturer and material supplier of private sector investors and customers from different sectors, especially government offices, specialized production-distribution companies.

Our group, which has passed many international audits and has proven itself, has technical staff and application power, also has an accredited high voltage testing laboratory within its facility.

"Europower Enerji A.Ş. is one of the leader electromechanical manufacturing companies in Turkey and in the World by its medium voltage switchgears and components, Metal Clad cells, gas-insulated cells, concrete and steel kiosks, HV disconnecter & circuit breakers, control-command-SCADA boards including all kinds of low voltage panels engaged in the production with international standards & quality certificates"

The main company of our group, Girişim Elektrik A.Ş., is on the Fortune 500 Turkey's Biggest Companies list since 2018 and Europower Enerji A.Ş. although it does not have an official participation in the ISO Second 500 Industrial Organizations list, it is in the 682nd position on turnover basis.

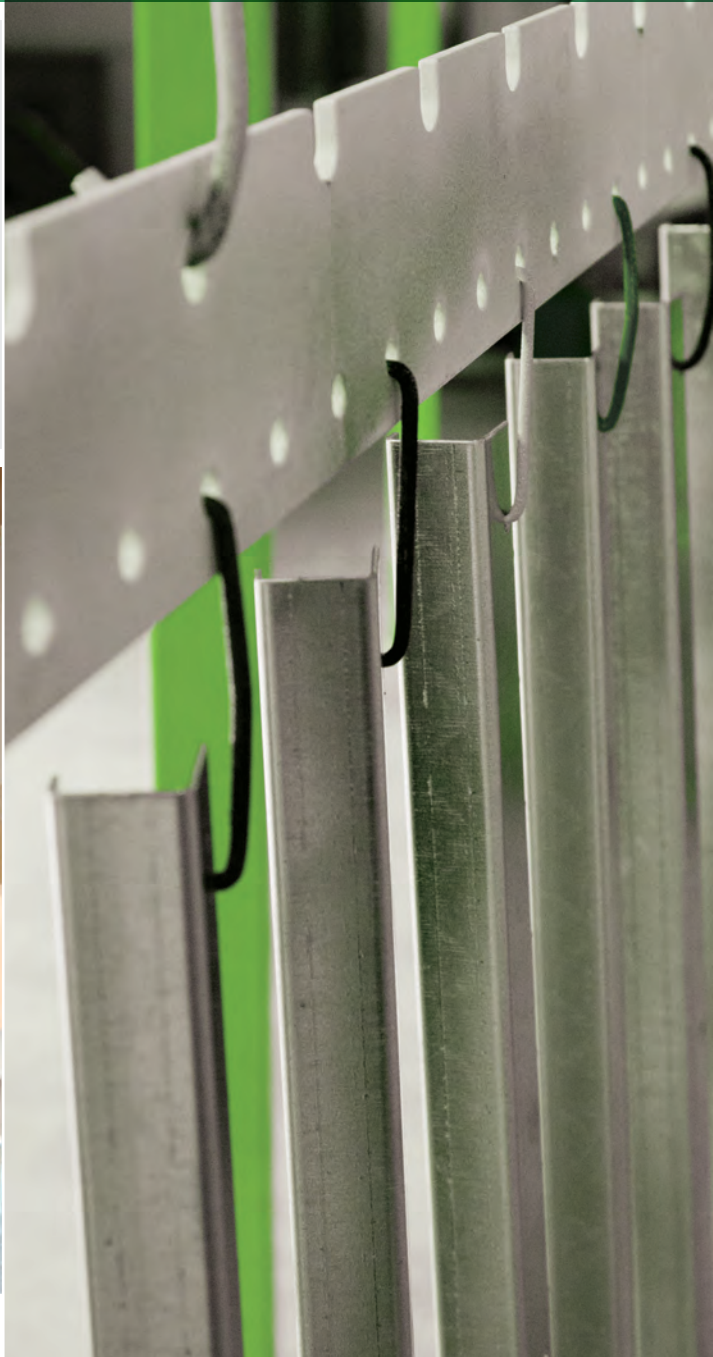




PRODUCTION MACHINES



Renewed, powerful and modern production machines inside the facility; has the capacity to comply and manufacture all your needs.





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Europower works to give you the most accurate service at the highest level with the power of its electrical and mechanical design team.

Our project teams always stand by our customers with their experience, following innovations, and contributing to your projects.



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Our facility, which works 24/7 with CNC Laser cutting machines, CNC Punch machines, CNC bending machines, Polyurethane Sealing Machine, Automation Controlled electrostatic powder coating facility and many other machines, is also known as one of the largest machine parks in the sector.





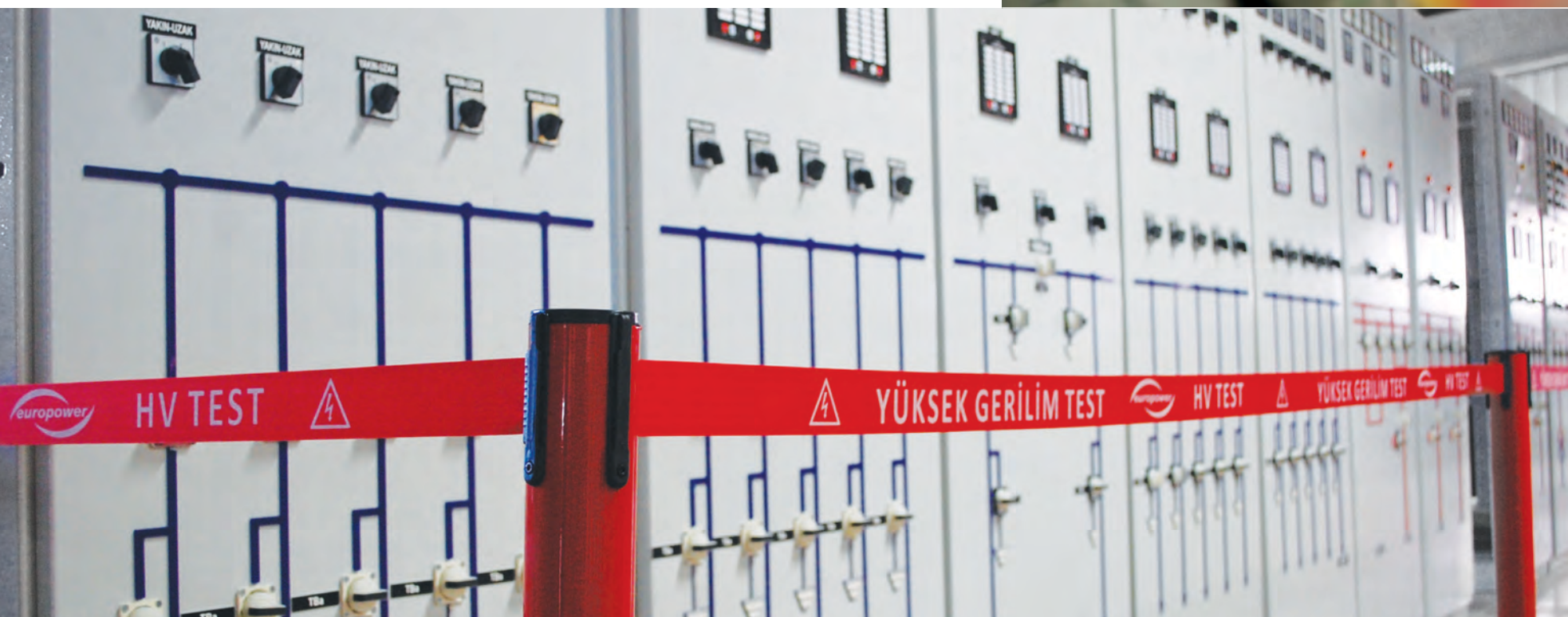
08

Our machine park, which reflects the power of the project team to our products, enables us to produce faultless and fast in terms of both CNC technology and work capacity.





Apart from the routine tests of the manufactured products, the interim controls of all materials at critical points determined within the input quality controls and manufacturing processes is done meticulously with 100% compliance expected.





Our Test and Quality Control team carries out the routine tests of all the products we manufacture, in addition to our accredited High Voltage Laboratory approved by TÜRKAK, with precise and high quality test equipments in our factory.

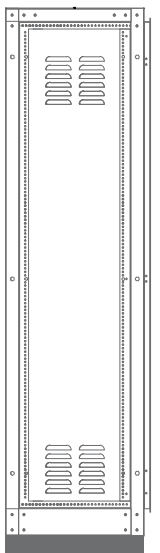
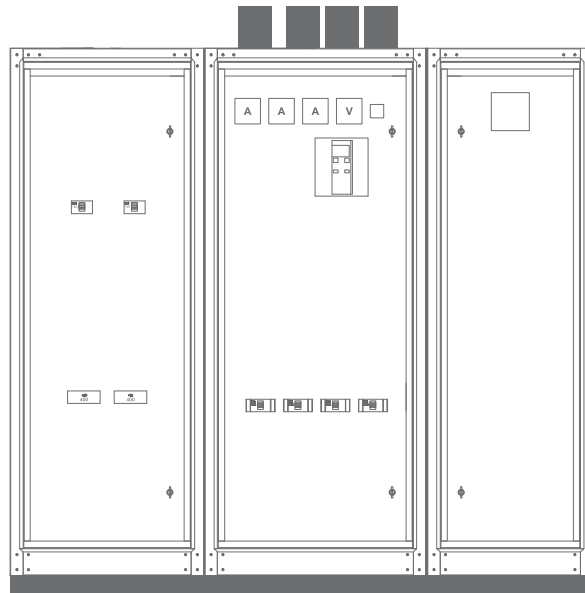
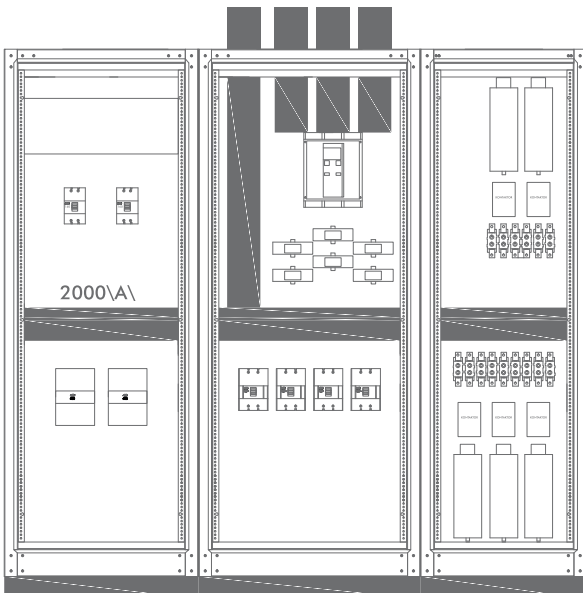




POWER DISTRIBUTION PANELS

Power Distribution Panels Up To 6300A and Form 4B







Your needs for fixed / withdrawable panels up to 6300A / 65KA / IP55 to FORM 4B are designed by Europower's experienced engineer staff and completed within rich machine park.

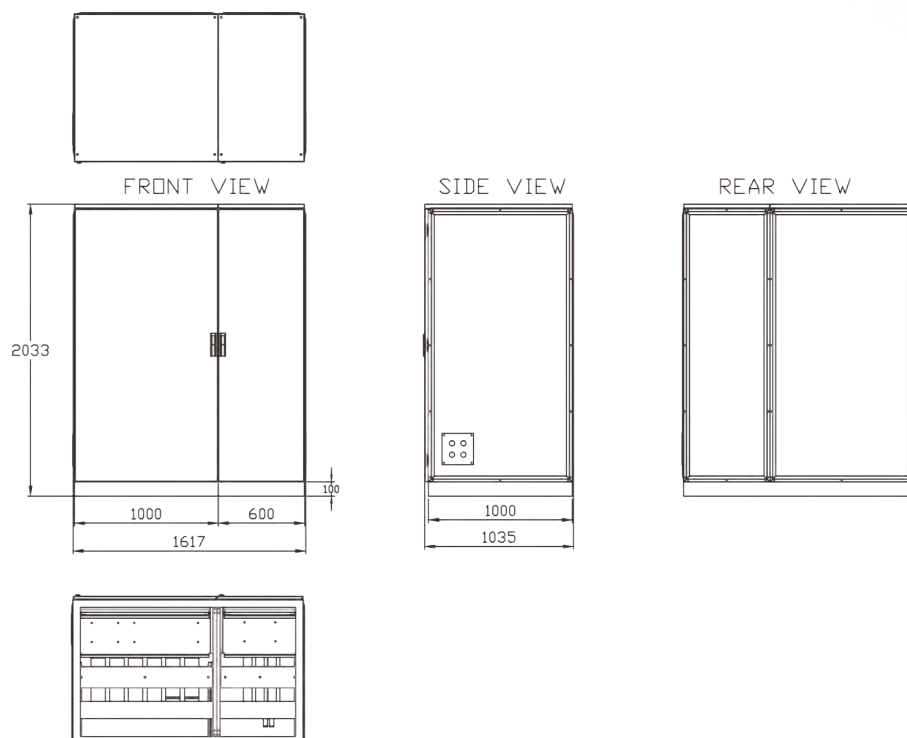


SEISMIC (EARTHQUAKE) WITHSTAND TESTED PANELS

We have an 6300A panel that complies with the earthquake regulation IEC 60068 and IEEE 693 standards and the tests have been completed for zone 4 under the most severe conditions.

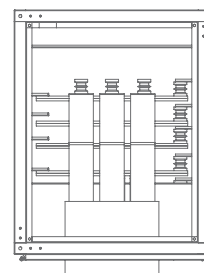
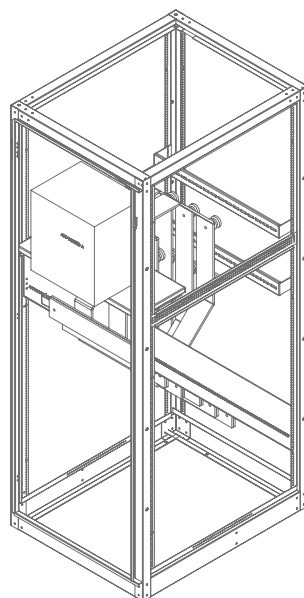
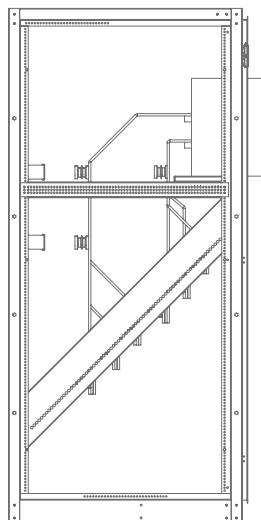
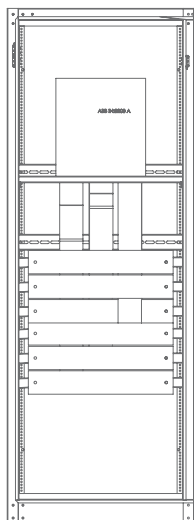
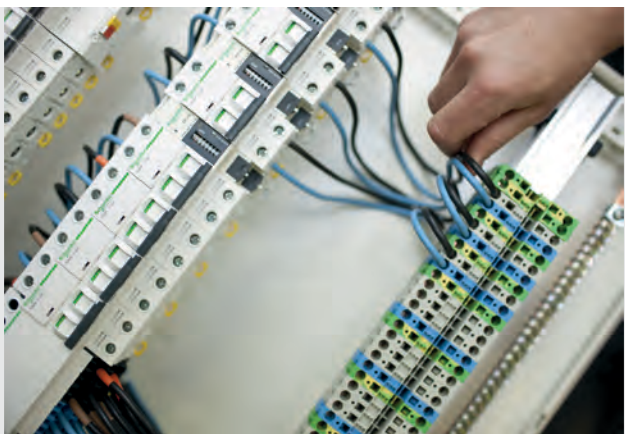
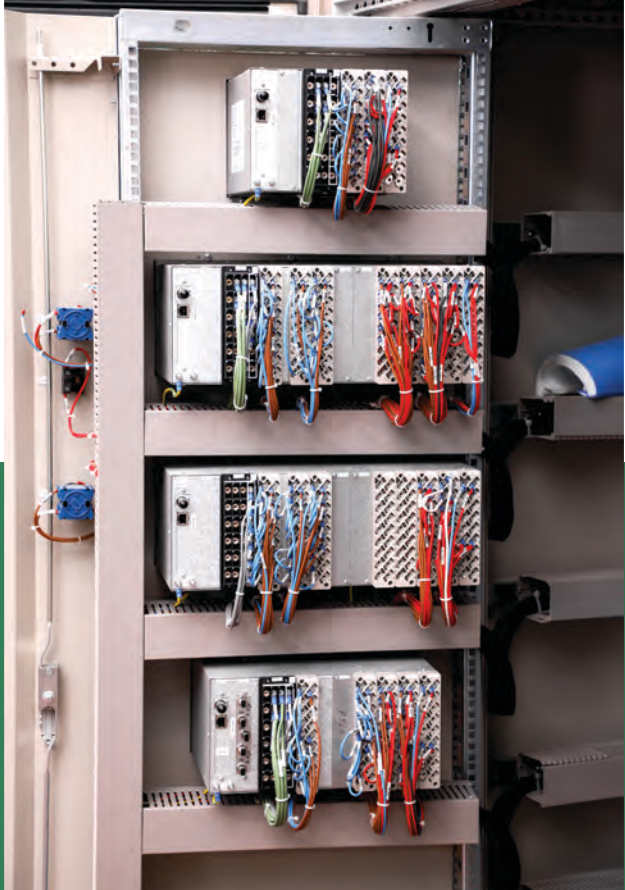


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Tested by





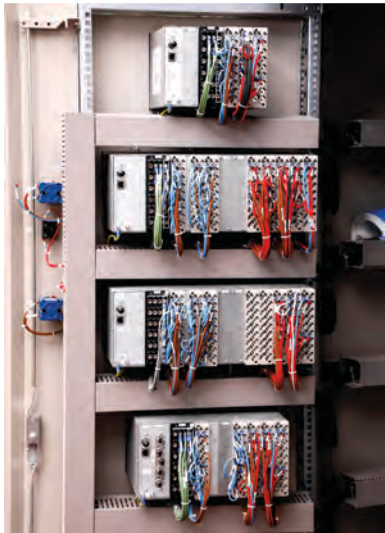


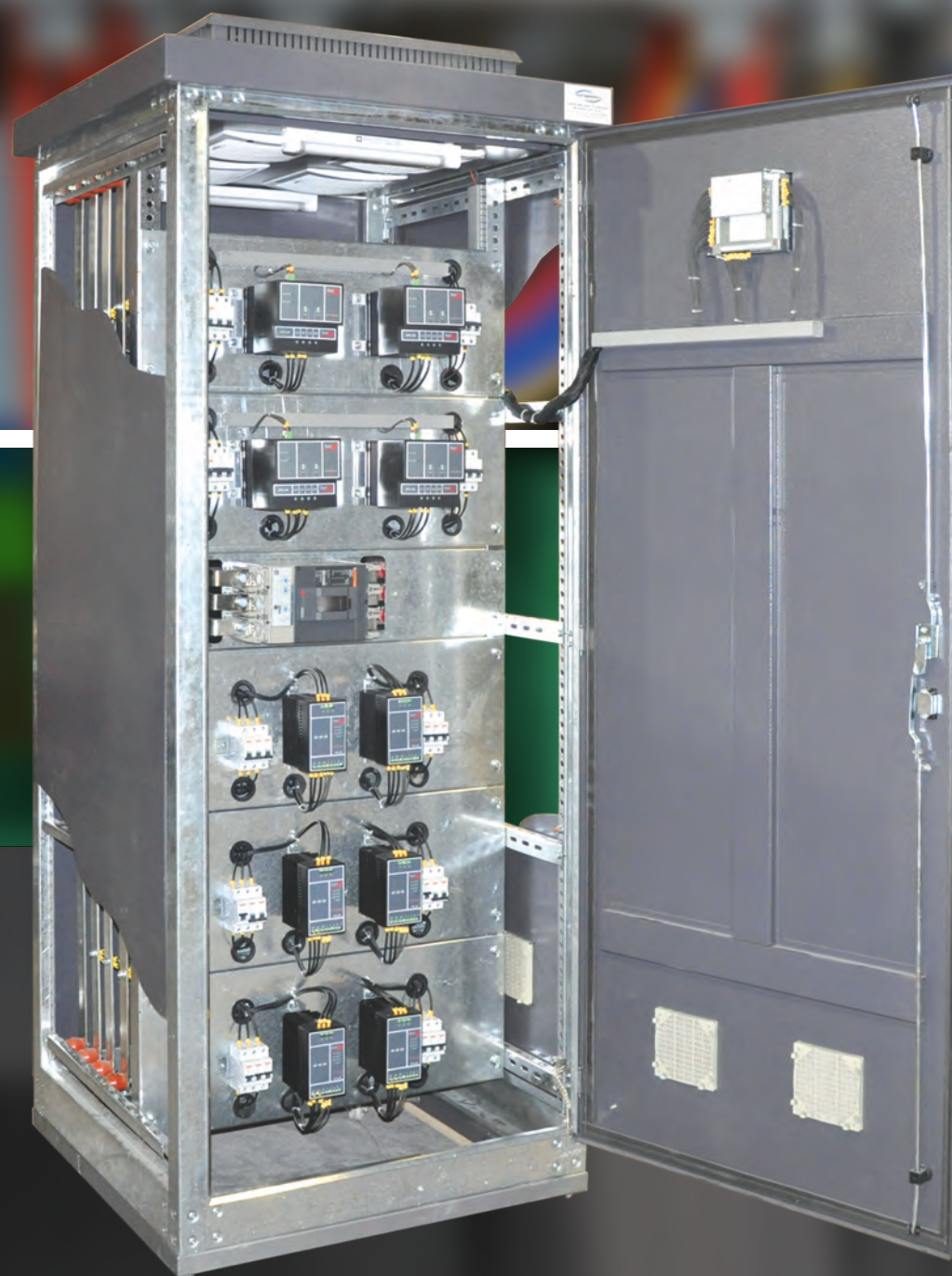
After the mechanical parts are produced in CNC machines, the mechanical and electrical assembly is meticulously completed by the experienced personnel of the sector.

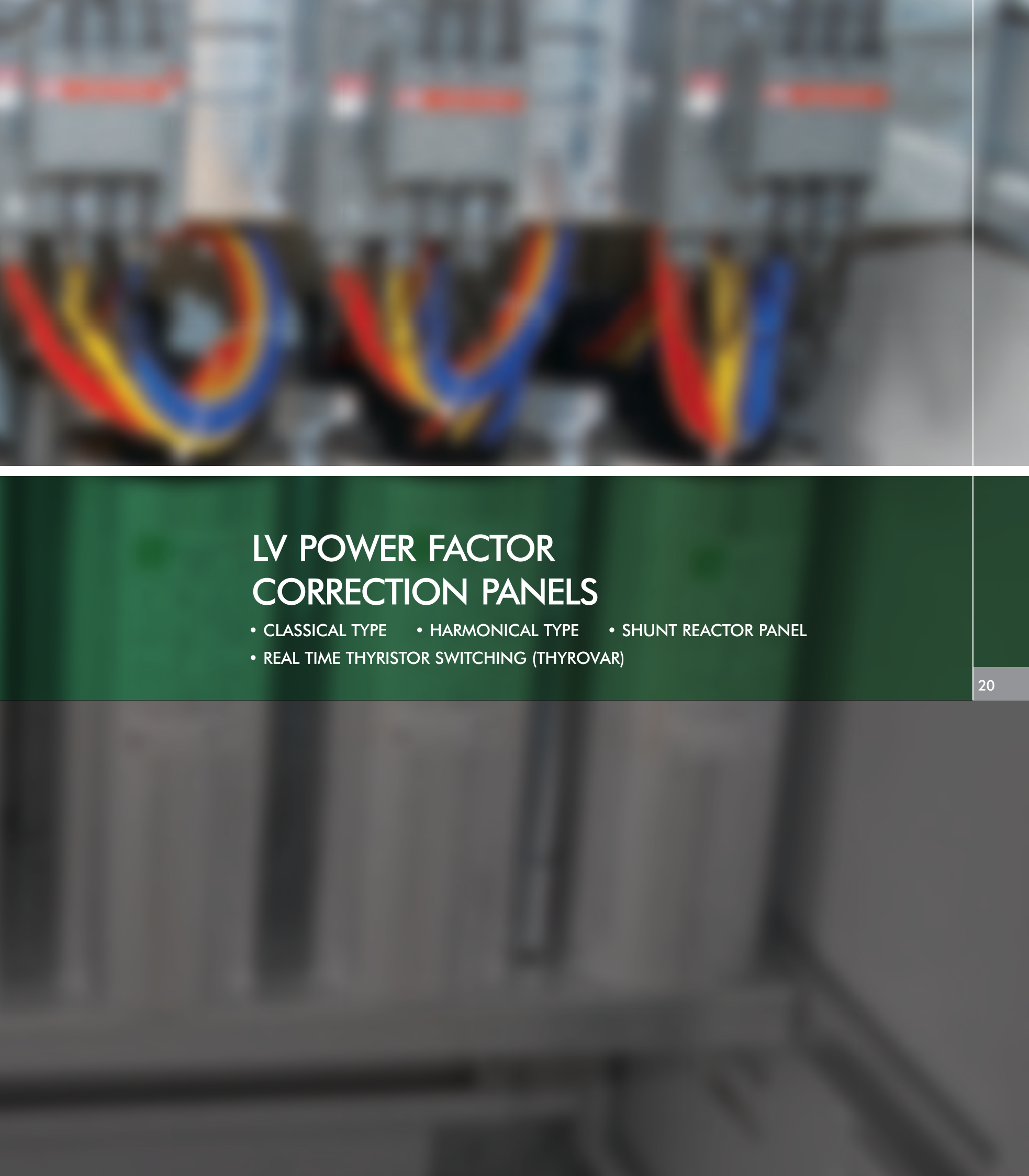
Before leaving the factory, all of them are tested by the test team for compliance with standards and specifications. Finally the products are offered to our valuable customers after labeling and packaging.



Panel design and productions are made according to customer requests and field conditions from IP2X to IP65 degrees, up to 6300A withstand, independent from internal / external type and switch brand selection.







LV POWER FACTOR CORRECTION PANELS

- CLASSICAL TYPE
- HARMONICAL TYPE
- SHUNT REACTOR PANEL
- REAL TIME THYRISTOR SWITCHING (THYROVAR)



Improving energy quality in facilities and preventing power losses requires experience and quality.

As Europower, after making measurements and reports on the energy quality in the facilities, we clearly state the total requirement and conduct the projects and productions according to these results.





We carry out the project, electrical and mechanical design, panel manufacturing and assembly of all types of compensation panels, from classical contactor compensation systems, thyristor triggered real-time systems to harmonic filter reactor panels in our factory, and if requested, we also install remote monitoring systems inside the panels.







INDUSTRIAL PANELS

MCC PANELS

MOTOR CONTROL CENTERS
SOFT STARTER
STAR-DELTA / DIRECT ROUTING

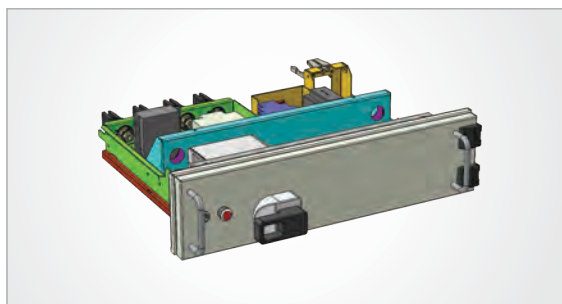
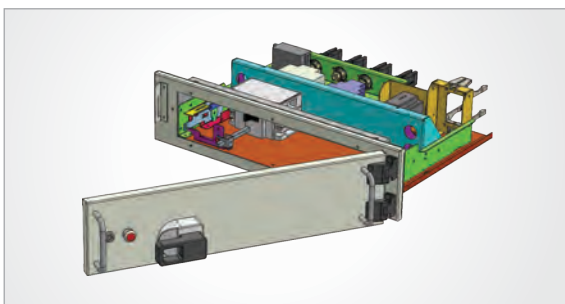
SCADA, AUTOMATION and
COMMUNICATION PANELS
PANEL PARTNERSHIPS

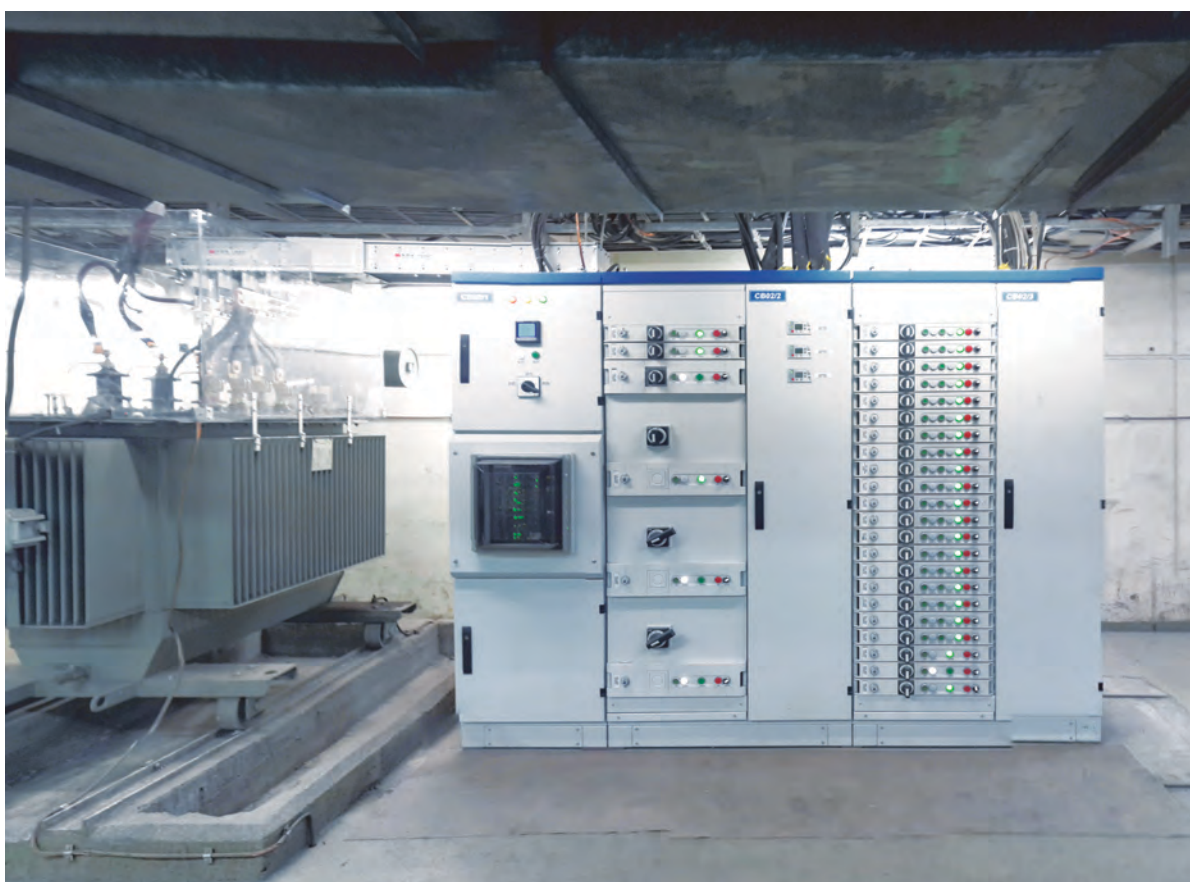
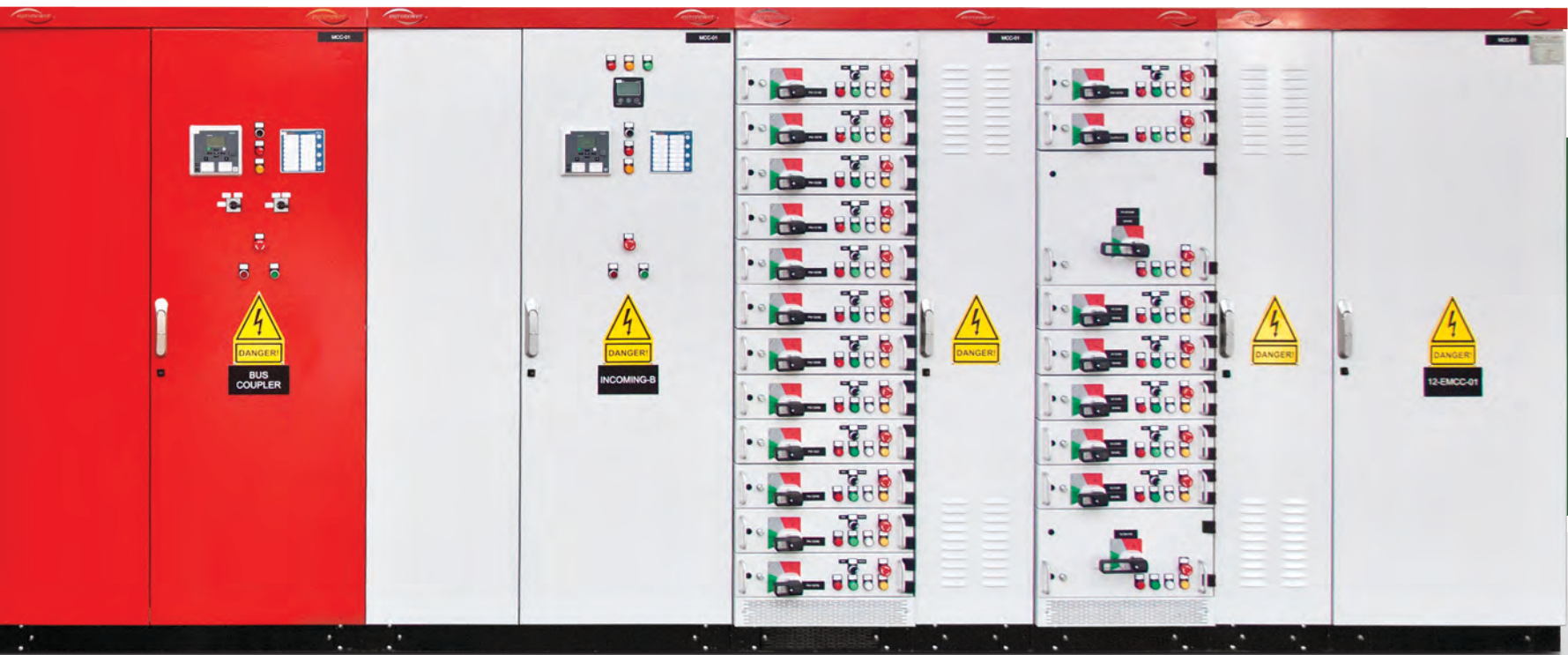
MCC PANELS



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Our company; which is the right address to meet the needs of your industrial facilities, offers you the best solutions with its experienced engineering team and high-level electrical / assembly staff.







EAT•N
xEnergy



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XEnergy will respond to your special projects and applications in the most accurate and qualified way with its internal arc withstand tests, seismic tests and a high-level design.





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As a panel builder partner of the xEnergy brand, which reflects Eaton's quality and experience on panel design, we serve with type tested Form4b IP55 and low voltage solutions up to 5000A.



SCHNEIDER BLOKSET SERIES PANELS



With the Schneider low voltage panel series, we are able to offer our customers various power distribution solutions. With Prisma and Blokset series, you will be one step closer to the panel world of the future. Regardless of the panel type you choose (withdrawable or fixed), you will have performance, operation richness and safety with Schneider.



LEGRAND XL³ SERIES PANELS & BOARDS



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We offer solutions according to the demands of our customers with XL³ series panels.

XL³ series panels are products that can be freely designed for distribution, equipped with internal and external cable / busbar sections and comply with type test standards.

Legrand offers easy installation and maintenance with different solutions. Service areas are diversified to meet specific needs.







SUBSTATIONS

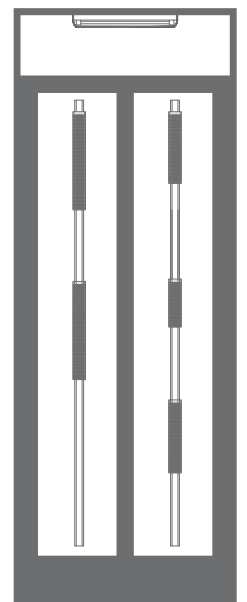
CONTROL/RELAY PANELS
FIELD DISTRIBUTION BOARDS
AC-DC DISTRIBUTION BOARDS
DATA COLLECTION PANELS
AUXILIARY SERVICE PANELS

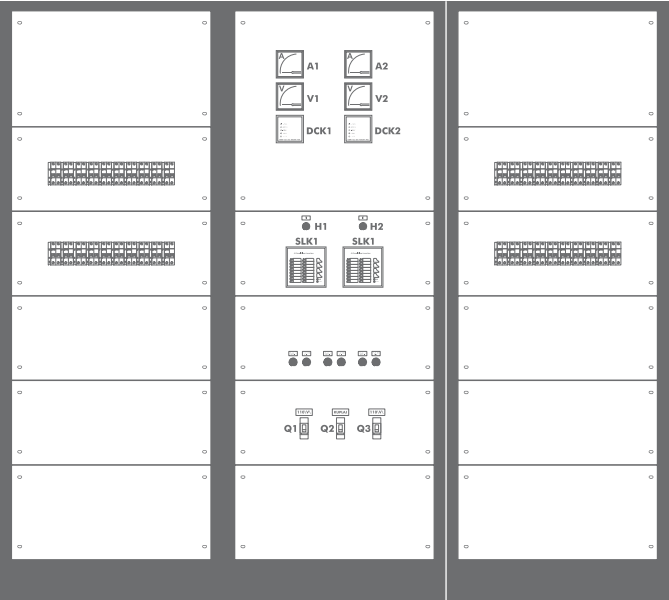
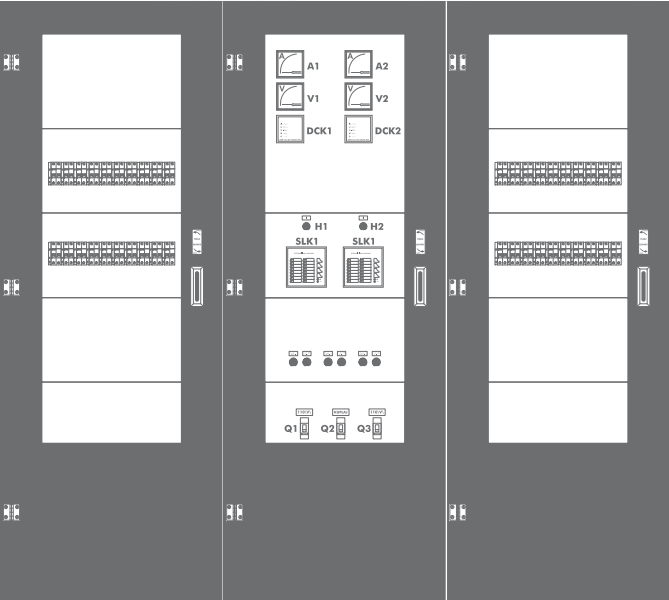


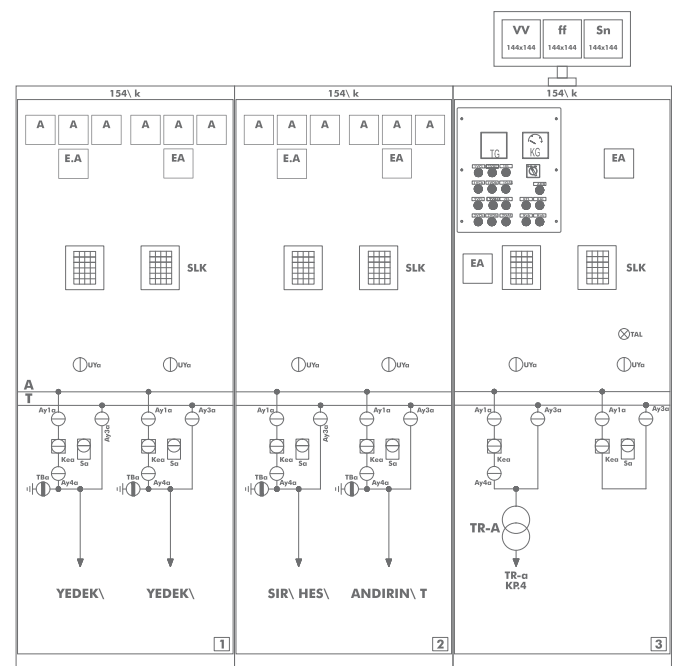
We have productions that are all type tested in accordance with IEC 61439-1 standards, certified by TSE and can meet all the needs of a substation.

Europower Enerji does not just have TEİAŞ (Turkey Electricity Transmission Incorporated Company) complied production but has a wide range of reference list that can comply many world-known transmission companies' specifications.

- Control Panels
- Relay Panels
- Auxiliary Service Panels
- Substation AC/DC Distribution Panels
- Data Collection Panels
- SCADA Panels
- Field Distribution Boards that complies with TEİAŞ specs









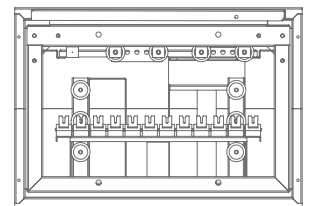
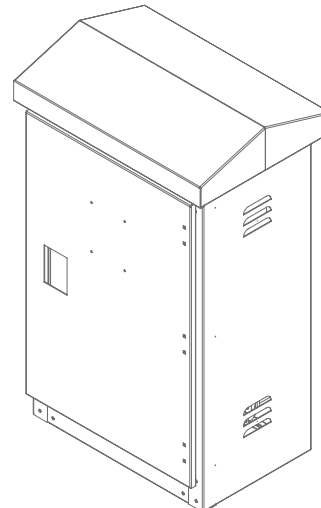
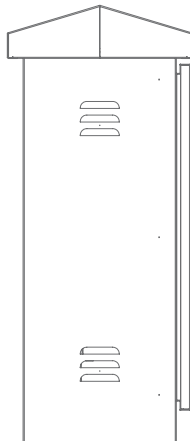
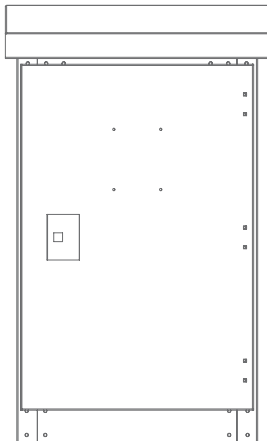
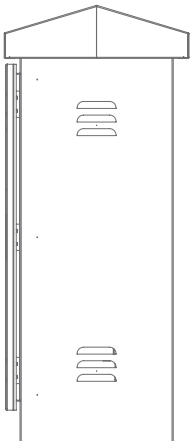
All the project design of 36... 400KV transformer substations, switchyards, TEİAŞ and many electricity transmission institutions in the world, approval processes, panel and Field Distribution Board manufacturing are carried out perfectly by our professional teams.

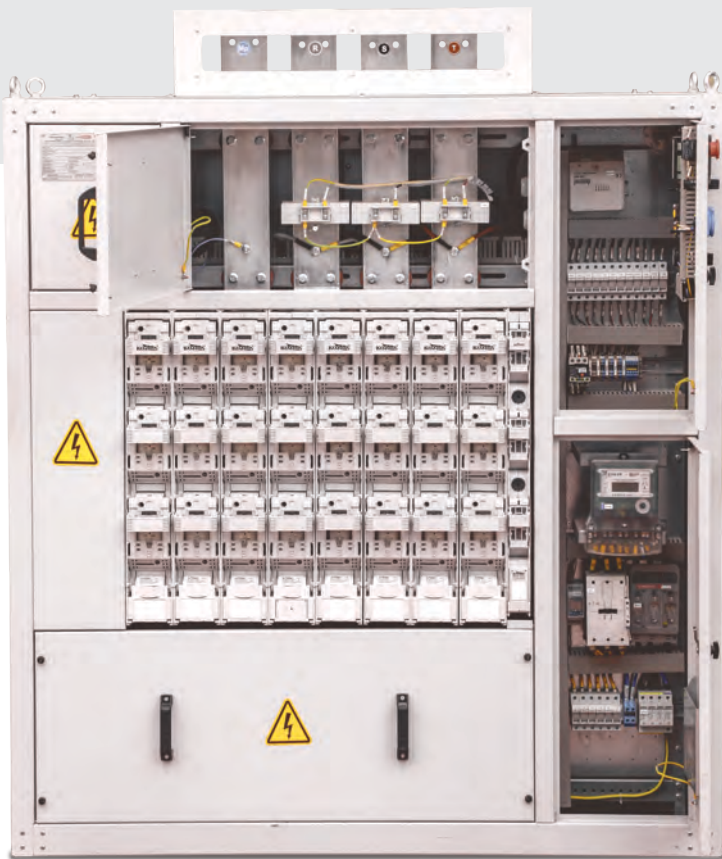


TEDAŞ TYPE DISTRIBUTION PANELS & FIELD DISTRIBUTION BOARDS



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Our company is serving to all Electricity Distribution companies around Turkey around for many years with thousands of products, continues to work on the quality and attention to details reflecting the TEDAŞ type distribution boards in custom manufacturing.

With its professional team that meets the special needs of the regions and does not see the specifications as an obligation but tries to add value on the contrary, EUROPOWER will be happy to be your biggest business partner in the production of TEDAŞ type distribution panels and field distribution boxes.





RENEWABLE ENERGY APPLICATIONS

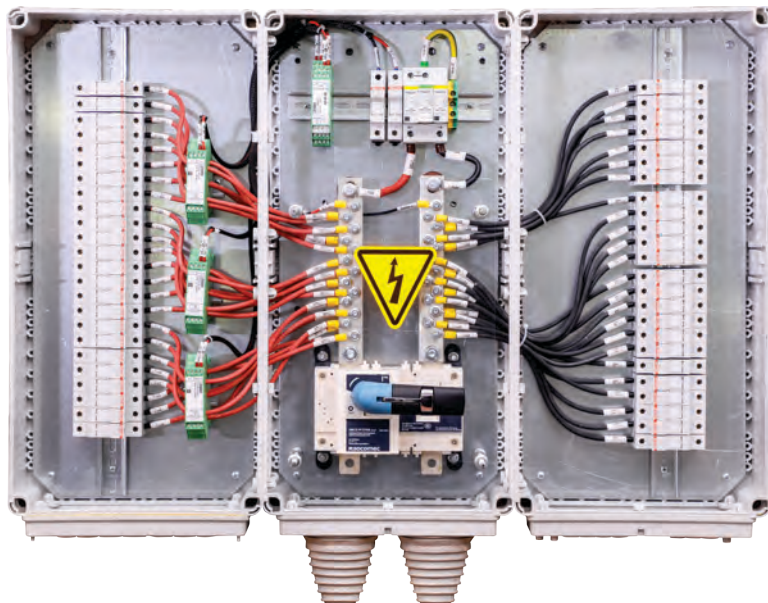
MAIN COLLECTION PANELS for SPPs

FIELD COLLECTION PANELS for SPPs

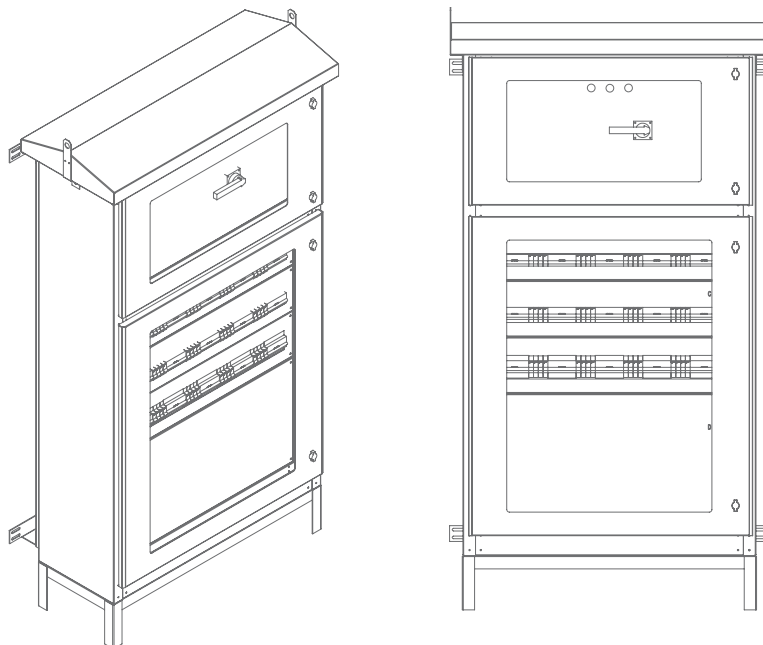
DC COMBINER PANELS for CENTRAL INVERTER SYSTEM SPPs (with TRACKING or without TRACKING)

UNEQUIPPED ENCLOSURES

SPECIAL APPLICATIONS



AC collector panels, AC field distribution boards and DC combiner boxes for central inverter systems with either tracking or non-tracking versions are under our main production cycle.



As Europower, we offer you both visuality and ease of connection with our auxiliary type panel productions.

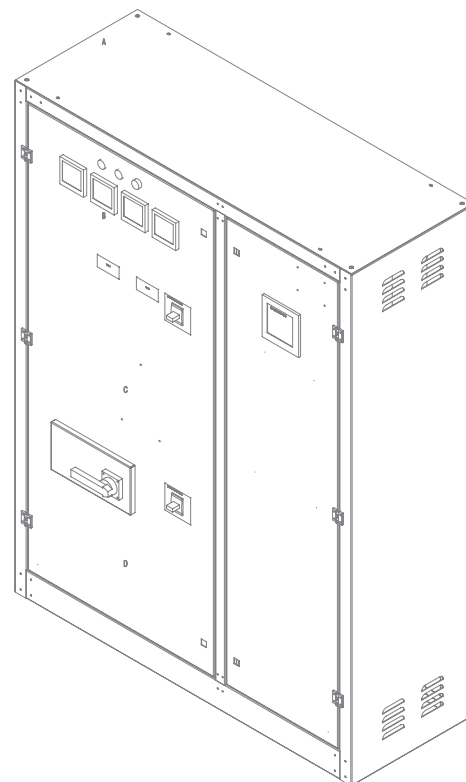
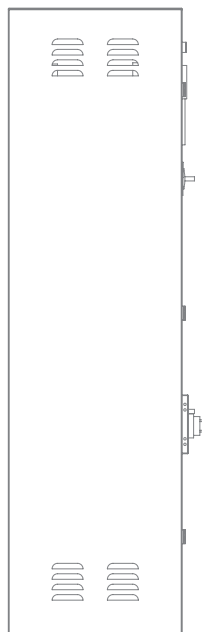
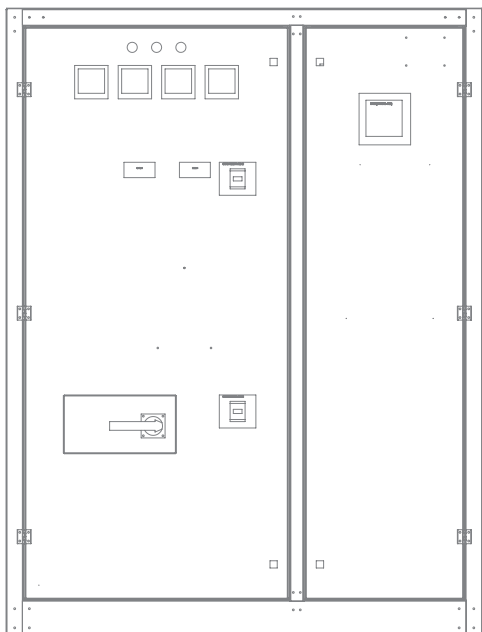
Our mechanical design team is always at your service with all kinds of sheet metal panels and accessories that we can design for your needs in your special projects.

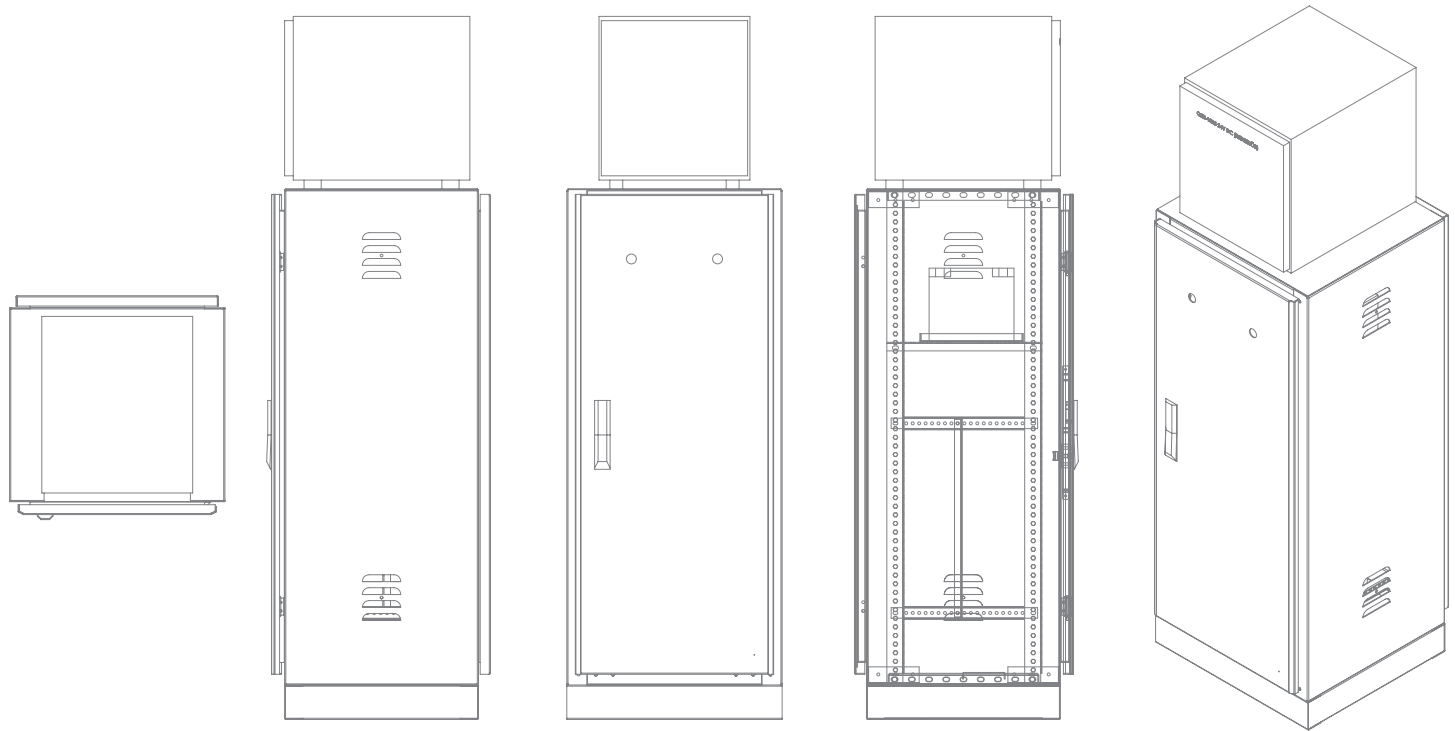


Transportation - Defense Industry Special Panels

In the urban security management system and license plate recognition system projects we carried out together with some high-level defense and transportation industry companies, field cabinets for imaging and license plate recognition systems were manufactured in many regions.

SPECIAL APPLICATIONS







TECHNICAL DOCUMENTS

CONTINUOUS CURRENT LOAD ON ALUMINUM BUSBARS										
ENVIRONMENT TEMPERATURE: 25 - 30 °C										
Dimensions mm	Cross- section mm²	Weight kg/m	CONTINUOUS LOAD ON COPPER (A) - 50 Hz. A.C.							
			NUMBER OF PAINTED BUSBAR				NUMBER OF BARE BUSBAR			
			I	II	III	IIII	I	II	III	IIII
12x2	24	0,0648	95	170	-	-	75	135	-	-
15x2	30	0,0795	120	205	-	-	90	160	-	-
15x3	45	0,120	140	250	-	-	110	200	-	-
20x2	40	0,107	155	265	-	-	115	210	-	-
20x3	60	0,161	185	325	-	-	140	255	-	-
20x5	100	0,268	245	420	-	-	185	330	-	-
25x3	75	0,201	230	390	-	-	170	315	-	-
25x5	125	0,335	295	510	-	-	220	410	-	-
30x3	90	0,242	265	455	-	-	195	365	-	-
30x5	150	0,403	340	595	-	-	255	475	-	-
40x3	120	0,323	350	600	-	-	265	475	-	-
40x5	200	0,538	435	760	-	-	330	620	-	-
40x10	400	1,08	635	1140	1570	2140	490	925	1280	1700
50x5	250	0,673	530	920	1330	1760	405	740	1070	1430
50x10	500	1,35	780	1370	1860	2530	595	1090	1520	2050
60x5	300	0,808	635	1140	1570	2140	490	925	1280	1700
60x10	600	1,62	910	1600	2170	2890	695	1260	1800	2380
80x5	400	1,08	835	1430	1900	2470	645	1110	1570	2120
80x10	800	2,16	1190	2030	2720	3600	890	1620	2240	3000
100x5	500	1,35	1030	1790	2330	2950	780	1370	1900	2470
100x10	1000	2,70	1440	2420	3250	4100	1100	1950	2650	3500
100x15	1500	4,04	1760	2900	3800	4900	1400	2400	3200	4200
120x10	1200	3,24	1710	2850	3650	4750	1300	2280	3100	4100
120x15	1800	4,86	2070	3360	4400	5400	1550	2750	3700	4750
160x10	1600	4,32	2200	3600	4750	5900	1650	2850	3950	5050
160x15	2400	6,47	2600	4250	5450	7050	2000	3400	4600	5950

CONTINUOUS CURRENT LOAD ON COPPER BUSBAR										
ENVIRONMENT TEMPERATURE: 25 - 30 °C										
Dimensions mm	Cross- section mm²	Weight kg/m	CONTINUOUS LOAD ON COPPER (A) - 50 Hz. A.C.							
			NUMBER OF PAINTED BUSBAR				NUMBER OF BARE BUSBAR			
			I	II	III	IIII	I	II	III	IIII
12X2	24	0,21	125	250	-	-	110	220	-	-
15X2	30	0,27	155	270	-	-	140	240	-	-
15X3	45	0,40	185	330	-	-	170	300	-	-
20X2	40	0,36	205	350	-	-	185	315	-	-
20X3	60	0,54	245	425	-	-	220	380	-	-
20X5	100	0,89	325	550	-	-	290	495	-	-
25X3	75	0,67	300	510	-	-	270	460	-	-
25X5	125	1,12	385	670	-	-	350	600	-	-
30X3	90	0,80	350	600	-	-	315	540	-	-
30X5	150	1,34	450	780	-	-	400	700	-	-
40X3	120	1,07	460	780	-	-	420	710	-	-
40X5	200	1,78	600	1000	-	-	520	900	-	-
40X10	400	3,56	835	1500	2060	2800	750	1350	1850	2500
50X5	250	2,23	720	1200	1750	2300	630	1100	1500	2100
50X10	500	4,45	1025	1800	2450	3330	920	1620	2200	3000
60X5	300	2,67	825	1400	1980	2650	750	1300	2800	2400
60X10	600	5,34	1200	2100	2800	3800	1100	1860	2500	3400
80X5	400	3,56	1060	1800	2450	3300	950	1650	2200	2900
80X10	800	7,12	1540	2600	3300	4600	1400	2300	3100	4200
100X5	500	4,45	1310	2200	2950	3800	1100	2000	2600	3400
100X10	1000	8,90	1880	3100	4000	5400	1700	2700	3600	4800
120X10	1200	10,68	2200	3500	4600	6100	2000	3200	4200	5500
160X10	1600	14,24	2880	4400	5800	7800	2600	3900	5200	7000

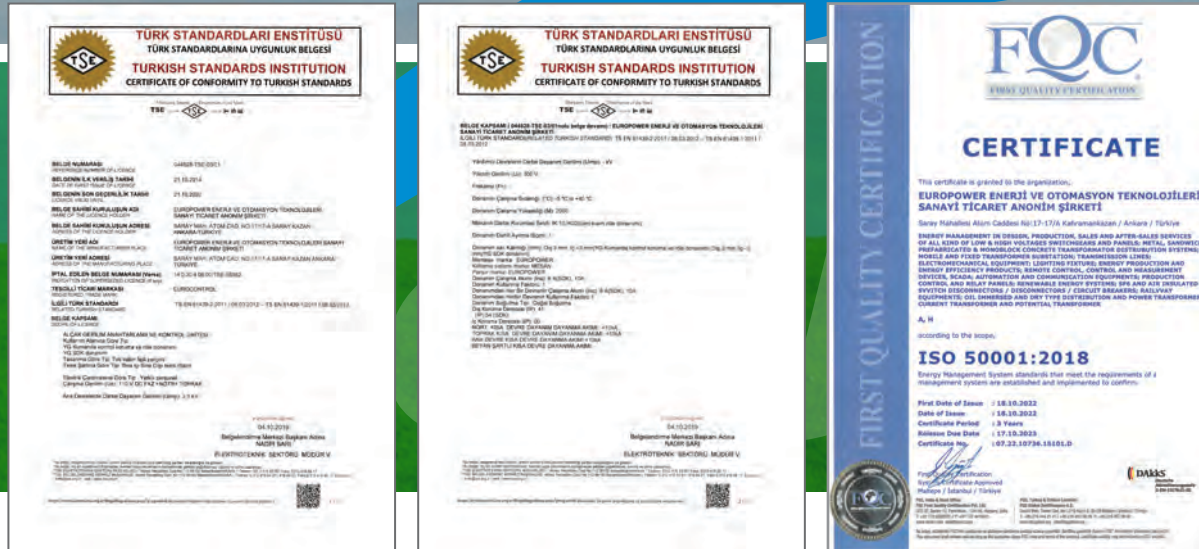
CURRENT CARRYING CAPACITY (A)*																	
Cable Type	Protodur N and F Cables (1)			Protodur Y Cables (2)								Protodur X Y Cables (3)					
Voltage	380 - 1000 V			0,6/1 kV		3,5/6 kV		5,8/10 kV		8,7/15 kV		20,3/35 kV					
Number of Core	1	2-5	1	3 & 4		3						1				3	
Application Method Cross-section mm²	One or more cable inside a pipe	In Air	Minimum cable diameter range in air	In Air	In Soil	In Air	In Soil	In Air	In Soil	In Air	In Soil	In Air 0 ⁰ 0	In Soil 0 ⁰ 0	In Air 000	In Soil 000	In Air	In Soil
0,75	-	13	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	12	16	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,5	16	20	25	27	17,5	-	-	-	-	-	-	-	-	-	-	-	-
2,5	21	27	34	36	24	-	-	-	-	-	-	-	-	-	-	-	-
4	27	36	45	46	32	-	-	-	-	-	-	-	-	-	-	-	-
6	35	47	57	58	41	-	-	-	-	-	-	-	-	-	-	-	-
10	48	65	78	77	57	-	-	-	-	-	-	-	-	-	-	-	-
16	65	87	104	100	76	-	-	-	-	-	-	-	-	-	-	-	-
25	88	115	137	130	101	120	105	125	115	105	97	-	-	-	-	-	-
35	110	143	168	155	125	150	130	150	135	130	117	189	199	208	195	172	148
50	140	178	210	185	151	175	155	175	165	155	146	223	238	247	234	204	178
70	175	220	260	230	192	215	195	215	205	190	181	273	296	302	292	251	220
95	210	265	310	275	232	260	240	255	250	225	220	325	358	359	354	300	265
120	250	310	365	315	269	295	275	290	285	260	255	368	412	402	404	335	304
150	-	355	415	355	309	335	315	325	320	300	295	410	465	443	456	375	347
185	-	405	475	400	353	375	360	365	365	340	340	463	532	496	515	-	-
240	-	480	560	465	415	435	430	425	430	400	405	434	627	562	602	-	-

(*) correction factors need to be considered separately.
(1) VOE 0100 25°C Environment Temperature
(2) VDE0271 In soil 20°C , in air 30 °C ambient temperature soil specific heat resistance Kcm/W, depth 70 cm
(3) VDE0298 in soil 20 °C. in air 30 °C ambient temperature soil specific heat resistance 100 Kcm/W. depth 70 cm

If the laying and operating conditions of the cables are different, the current carrying capacities should be multiplied by the relevant **Current Carrying Capacities Change Factors (VDE 0298)** given in the tables below.

THE MAXIMUM DISTANCES (m) of 0,6/1Kv ISOLATED CABLES THAT CAN CARRY STANDARD POWER																	
Power (kW)	mm²	THE MAXIMUM DISTANCES (m) of 0,6/1Kv ISOLATED CABLES THAT CAN CARRY STANDARD POWER															
		1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
2.5		103	169	271	404	675	1063										
3		87	142	227	339	567	892	1391									
3.5		73	120	192	287	480	756	1180									
4		65	106	169	253	423	666	1038				380V VOLTAGE DROP <=3					
4.5		58	94	51	226	378	595	927	1266								
5		51	84	135	202	337	531	828	1130								
6		43	70	112	168	280	442	689	940	1247							
7		36	60	96	143	240	378	590	805	1067							
8		32	52	84	125	210	330	515	703	932	1301						
9		28	46	74	111	186	293	457	625	828	1155						
10		25	42	67	101	168	265	414	565	750	1045						
12		21	35	56	84	141	223	347	474	630	878	1168					
14		18	30	49	73	123	194	302	413	547	764	1014					
16			26	42	62	105	165	257	351	466	650	863	1053				
18			23	37	56	94	148	231	316	419	585	777	948	1119			
20			21	34	51	85	135	210	287	381	532	706	862	1017			
22				30	45	76	120	288	256	340	475	630	769	907	1072		
25				27	40	67	106	165	226	299	418	555	677	799	944	1156	
30					33	56	89	139	189	251	351	466	569	671	793	971 1124	
35						48	75	117	161	213	297	395	482	569	672	823 952	
40						42	66	103	141	187	262	348	425	501	592	725 838	
45							58	91	124	165	231	306	374	442	522	639 739	
50							53	82	113	149	209	277	338	400	472	578 669	
55							48	74	102	135	188	250	305	361	426	522 604	
60								68	94	124	173	230	281	332	392	481 556	
70								58	80	106	148	197	241	284	336	411 476	
75								55	75	99	139	185	225	266	314	385 446	
80									70	93	130	172	210	248	293	360 416	
90									62	82	115	153	187	220	261	319 369	
100										74	103	138	168	198	234	287 332	
110										68	94	126	153	181	214	262 303	
130			Cos 0 = is selected as 0.9								80	106	129	153	181	221 256	
133											78	104	127	149	177	216 250	
150												92	112	132	156	192 222	
160												86	105	124	146	179 208	
180													93	110	130	160 185	
200														99	117	144 166	
205														97	114	140 162	
230															102	125 145	
270																106 123	
280																119	
290																114	
300																111	
305																109	

TEST and CERTIFICATES



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Some of the type tests for our LV panels has been shared.
For more spesific ones, please ask from us.



REFERENCES

INTERNATIONAL PROJECTS

- NEW ZAHO CITY
- GARDEN CITY
- ALYA GROUP - DNO & OILSERV GAS SITE PESHKABİR MCC
- ALYA GROUP - DNO & OILSERV GAS SITE TAWKE-2 MCC
- SMART POWER
- DUHOK
- ABEE BAGHDAT
- İLCİ (PARK VIEW)
- IRAQ SÜLEYMANİYE CHWAR CHRA SHEET METAL KIOSK
- NEW AZADI CITY 2000KVA KIOSK and SMDB PANEL PROJECT
- LAWAN CITY PROJECT
- MOZAMBIQUE - SPP PANEL PROJECT
- SABCENTER IRAQ PROJECT
- 120 ROAD TRANSFORMATOR, SWGR, LV PANEL PROJECT
- ANWAR SOURA - IRAQ KIOSK PROJECT
- GOLDBECK SOLAR - POLAND SPP PROJECT
- TAJIKISTAN GOLONAYA PROJECT
- ATCONZ PROJECT
- UKRAINE - GNCR 16 MW LUGINY SPP PROJECT

DOMESTIC PROJECTS

- ENERJİSA - MOBILE LV SHUNT REACTOR PROJECT
- AKEDAŞ
- VAN EDAŞ
- ASELSAN - KGYS
- AFŞİN TPP
- GATA
- MARAŞ AIRPORT PANELS
- MUŞ AIRPORT PANELS
- EDREMIT KÖRFEZ HOSPITAL PANELS
- OSMANGAZİ EDAŞ
- SAKARYA EDAŞ
- ISPARTA 40th INFANTRY REG. COMMAND
- KÜTAHYA CYANIDE TREATMENT FACILITY

SPP

- UKRAINE 5MW / 12MW / 19MW SPP
- ALDO ENERJİ - MUĞLA YATAĞAN SPP
- NATUREL ENERJİ - KAHRAMANMARAŞ 6MW SPP
- KVK ENERJİ - AKYURT 2MW SPP
- KARABÜK ÜNİVERSİTESİ - ROOF SPP
- ERZİNCAN AIRPORT SPP
- PRİME ENERJİ - URFA CATİC SPP 6MW
- ISPARTA PROVINCIAL ADMIN. SPP
- ABB - KINESIS 14MW SPP
- ESENBOĞA SPP 17MW
- BERGAMA SPP 12MW

WPP

- MERYEM WPP
- KİRAZLI WPP
- PAMUKOVA WPP
- ŞİLE WPP
- EBER WPP
- ÖRLEMİŞ WPP
- ALİBEY WPP
- ÇALIK ENERJİ - DEMİRCİLİ WPP 16 x 3MW
- ÇALIK ENERJİ - SARPINCIK WPP 13 x 3MW
- EDİNCİK WPP 13 x 3MW
- DİLEK WPP 10 x 3MW

HPP

- NAKHCIVAN BİLEV HPP
- ARPAÇAY HPP
- KUYRUKSUYU HPP
- AYTEMİZ ESKİKÖY HPP
- HED ENERJİ KARS ARPAÇAY HPP
- CAN HPP



SUBSTATION (İTM - SS)

- İTM.102 154 KV İNEGÖL SS
- İTM.114 154 KV GAZİANTEP SS
- İTM.133 154 KV DEMİRKÖY SS
- UŞAK ALSTO SS
- İTM.142 SULTANHANI SS - BES ELK.
- İTM.157 380 KV KARAKAYA SS
- İTM.165 KALKANDERE SS
- İTM.165 OYMAPINAR SS
- İTM.169 EDİRNE GİS SS
- İTM.142 SULTANHANI SS - BES ELK.
- İTM.175 ERBAA SS
- İTM.177 YÜREĞİR SS
- İTM.200 ADANA SS
- İTM.200 ZONGULDAK 2 SS
- İTM.204 ÇAYCUMA 2 SS
- İTM.206 YILDIZ SS
- İTM.225 EŞMEKAYA (SULTANHANI) SS
- İTM.244 HASANAĞA SS
- İTM.251 ADATOPRAKPINAR SS
- İTM.253 BOZBOĞAN SS
- İTM.255 HAZAR SS
- AVNİ ULUTAŞ İTM.262 BİLKENT GİS SS
- İTM.266 KARAHALLI SS
- İTM.263 YILDIZTEPE SS
- İTM.272 ALAPLI SS
- İTM.272 İSCEHİSAR SS
- İTM.275 MERSİN-3 SS
- İTM.276 KINIK SS
- İTM.282 YAZIHAN SS
- İTM.291 MADEN ELAZIĞ SS
- MAT ENERJİ - REYHANLI SS
- AYDURAN ELEKTRİK - DALAMAN SS





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