POWER®
ELEKTRONİK

Since 1999

POWER ANYTIME, ANYWHERE...



Military

Oil & Gas

Energy Solutions

EV Chargers

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About Us

Vision

Being future oriented and leading company in its sector.

Mission

Produce all products in the methods of safe, efficient, economical, high quality, environmentally sensitive ways.

Quality Policy

Presenting the company to whole world.

Gain customer confidence by continuously improving and developing the quality management system.

Ensure the continuity of customer satisfaction with our products and service quality.

Being a follower of innovation in the sector and make related investments.

Increasing the production efficency by developing our product scale.



T.C. SANAYİ VE
TEKNOLOJİ BAKANLIĞI

AR-GE MERKEZİ BELGESİ

Sanayi ve Teknoloji Bakanlığı tarafından,

Power Elektronik San. ve Tic. A.Ş.

5746 Sayılı Araştırma ve Geliştirme Faaliyetlerinin Desteklenmesi Hakkında Kanun kapsamında sağlanan teşvik ve muafiyetlerden yararlanmak üzere bu belge verilmiştir.

Mustafa **VARANK**
Bakan



EPDK

T.C. ENERJİ PİYASASI
DÜZENLEME KURUMU

ŞARJ AĞI İŞLETMECİ LİSANSI

Lisans No : ŞİH/11672-2/00112
Tarih : 23/02/2023

Bu lisans; Power Elektronik Sanayi ve Ticaret Anonim Şirketi'ne, 23/02/2023 tarihinden itibaren 49 (kırk dokuz) yıl süreyle ülke genelinde şarj ağı işletmeciliği faaliyeti göstermek üzere 6446 sayılı Elektrik Piyasası Kanunu ve ilgili mevzuat uyarınca Enerji Piyasası Düzenleme Kurulu'nun 23/02/2023 tarihli ve 11672-2 sayılı Kararı ile verilmiştir.

Mustafa YILMAZ
Başkan

EV CHARGERS



HOME MODEL INDIVIDUAL AC EV CHARGER

Multiple power options (3.7 / 7.4 / 11 / 22 kW)
1/3 Phase, 220/230 & 380/400 Vac, 50/60 Hz Input
Mod-3 charging compliant with IEC61851-1 standard
Type-2 Socket or wired version
Plug & Play and RFID charging initiation
LED color display of charging status
IP54, IK08 protection level
Stand or wall mount
CE certification
Bluetooth & Wifi mobile application support (optional)



HOME MODEL INDIVIDUAL AC EV CHARGER

Multiple power supply options (3.7 / 7.4 / 11 / 22 kW)
1/3 Phase, 220/230 & 380/400 Vac, 50/60 Hz Input
Type-2 socket output
RFID card charging control
LED color display of charging status
Mode-3 charging compliant with IEC61851-1
Plastic housing, durable design
IP55 protection class
Bluetooth & Wifi mobile application support (optional)



MOBILE HOME MODEL AC EV CHARGER

Multiple power supply options (3.7 / 7.4 / 11 / 22 kW)
1 Phase, 220/230 Vac, 50/60 Hz Input
Type-2 socket output
Plug & Play compatible
LED color display of charging status
Bluetooth and mobile app connectivity and control
IP55 protection class
Mode-2 charging compliant with IEC61851-1



BUSINESS MODEL COMMERCIAL AC EV CHARGER

Multiple power options (3.7 / 7.4 / 11 / 22 kW)
1/3 Phase, 220/230 & 380/400 Vac, 50/60 Hz Input
Type-2 socket or wired version
RFID control and mobile app charging
User information LED indicator, 4.3-inch screen
OCPP 1.6J support & 2.0 support
GSM, Wi-Fi and Ethernet connectivity support
MID certified energy analyzer
IP54, IK10 protection level (IK08 for screen)
Mode-3 charging compliant with IEC61851-1



COMMERCIAL DUO AC EV CHARGER

Multiple power support (2x7.4kW / 2x11kW / 2x22kW)
3 Phase, 400 Vac, 50/60 Hz Input
Mod-3 charging compliant with IEC61851-1 standard
Type-2 socket or wired version
Ability to charge 2 vehicles simultaneously
Plug & Play, RFID and mobile app charging initiation
7-inch touchscreen
User informative LED indicator
OCPP 1.6J support (supports 2.0)
GSM, Wi-Fi and Ethernet connectivity support
MID certified energy analyzer
IP54, IK10 protection level (IK08 for screen)
CE certification



ADVERTISING SCREEN AC EV CHARGER

Multiple power support (2x7.4kW / 2x11kW / 2x22kW)
3 Phase, 400 Vac, 50/60 Hz Input
Mod-3 charging compliant with IEC61851-1 standard
Type-2 socket or wired version
Ability to charge 2 vehicles simultaneously
Plug & Play, RFID and mobile app charging initiation
7-inch touchscreen
User informative LED indicator
OCPP 1.6J support (supports 2.0)
GSM, Wi-Fi and Ethernet connectivity support
MID certified energy analyzer
IP54, IK10 protection level (IK08 for screen)
CE certification



FAST DC EV CHARGER WALL TYPE

Multiple power support (30-60 kW)
3 Phase, 380/400, 50 Hz Input
It has 1 CCS socket output
Plug & Play, RFID and mobile app charging start
7-inch touchscreen
User information LED indicator
OCPP 1.6J support (2.0 support)
Ability to integrate with charge management software
Residual current protection
GSM based communication
Stand or wall mount (optional)
IP54, IK10 protection level (IK08 for screen)
CE certification



ADVERTISING SCREEN DC EV CHARGER

Multiple power support (30-90 kW)
3 Phase, 380/400 Vac, 50 Hz Input
Mod-4 charging compliant with IEC61851-1 standard
5 meter CCS2 charging cable
Ability to charge 2 vehicles simultaneously
Plug & Play, RFID and mobile app charging start
2x4.3 inch touchscreen
User information LED indicator
OCPP 1.6J support (2.0 support)
GSM, Wi-Fi and Ethernet connectivity support
55 inch LCD outdoor advertising screen
MID certified energy analyzer
IP54, IK10 protection level (IK08 for screen)
CE certification



FAST DC CHARGER STAND TYPE

Multiple power support (60-400 kW)
3 Phase, 380/400 Vac, 50 Hz Input
Mod-4 charging compliant with IEC61851-1 standard
5 meter CCS2 charging cable
Ability to charge 2 vehicles simultaneously
Plug & Play, RFID and mobile app charging start
7-inch touchscreen
User information LED indicator
OCPP 1.6J support (2.0 support)
GSM and Ethernet connection support
MID certified energy analyzer
Convenient charging with a cable reel
IP54, IK10 protection level (IK08 for screen)



MOBILE PORTABLE DC FAST CHARGER

Power: 40 kW
AC Input: 380 Vac, 50 Hz, Cable + Plug (5 m)
DC Output Voltage: 200–1000 VDC
Charging Connector Type: 1× CCS2, 125 A (5 m)
LCD Display: 7-inch
OCPP 1.6 (OCPP 2.0.1 Ready)
RFID Card Reader
Optional: Wi-Fi, 4G, Bluetooth
IK10 protection level (IK08 for screen)



MOBILE BATTERY-POWERED DC FAST CHARGER

Power: 30 kW / 50 kW / 80 kW > Optional
AC Input: 380 Vac, 50 Hz
DC Output Voltage: 200–1000 VDC
Charging Connector Type: 1× CCS2, 125 A (7 m)
Battery Capacity: 30 kWh / 50 kWh / 60 kWh > Optional
LCD Display: 10-inch
OCPP 1.6 (OCPP 2.0.1 Ready)
RFID Card Reader
Optional: Wi-Fi, 4G, Bluetooth
Note: Vehicle not included.

POWER® ELEKTRONİK

RECTIFIER & BATTERY CHARGERS



1 PHASE RECTIFIER, BATTERY CHARGER
25A-100A
220/230 VAC
24/30/48/110/125/127/220 VDC
50-60 Hz ±5%



3 PHASE RECTIFIER, BATTERY CHARGER
30A-200A
380/400 VAC
24/30/48/110/125/127/220 VDC
50-60 Hz ±5%



3 PHASE RECTIFIER, BATTERY CHARGER
100A-1000A
380/400 VAC
24/30/48/110/125/127/220 VDC
50-60 Hz ±5%

UPS



OL SERIES UPS 3 PHASE
1kVA-100kVA
380/400/415 VAC
220/230/240 VAC
50-60 Hz



TRANSFORMER-BASED INDUSTRIAL 3 PHASE UPS
10kVA-300kVA
380/400/415/440 VAC
50-60 Hz



SIRIUS SERIES ONLINE 3 PHASE UPS
100kVA-800kVA
380/400/415 VAC
50-60 Hz



RACK TYPE UPS 1 PHASE
1kVA-10kVA
220/230/240 VAC
50-60 Hz



MODULAR UPS MODULES
15kW-25kW-30kW-75kW



MODULAR UPS 3 PHASE
30kVA-4800kVA
380V/220V , 400V/230V , 415V/240V
380V/220VAC , 400V/230VAC , 415V/240VAC
50-60 Hz

AS OF 2026, WE WILL CONTINUE TO PROVIDE YOU WITH BETTER SERVICE AT OUR NEW FACTORY LOCATED IN DİLOVASI İMES OSB, COVERING AN AREA OF 10.000 m².



CONVERTER



STATIC FREQUENCY CONVERTER

10kVA-2000kVA/kW
110/208/380/400/415/440 VAC ±10% *
110/208/380/400/440/480 VAC ±1%
50-60 Hz



TRANSFORMER TEST CONVERTER

30kVA-1500kVA/kW
380/400/415/440 VAC ±10% *
5 - 440 VAC ±1%
40-50-60-150-200 Hz



MODULAR FREQUENCY CONVERTER

100kVA-2000kVA/kW
3/3 Phase, 380/400 VAC ±20% *
380/400 VAC ±1%
50 ±3%

VOLTAGE STABILIZERS / INVERTER



STATIC VOLTAGE STABILIZERS

Thyristor Controlled / 3 Phase
30kVA- 1000kVA/kW
380/400 VAC (-25%, +15%)
380/400 VAC
50-60 Hz



STATIC VOLTAGE STABILIZERS

IGBT Controlled / 1 PE - 3 PE
80kVA-6000kVA/kW
380/400 VAC - 220/230 VAC (-25%, +15%)
380/400 VAC- 220/230 VAC
50-60 Hz



SERVO VOLTAGE STABILIZERS

COLUMN VARIAC
150kVA-6000kVA/kW



SERVO VOLTAGE STABILIZERS

TOROIDAL VARIAC
10kVA-1000kVA / 1 PE - 3 PE
380/400 VAC - 220/230 VAC (-25%, +15%)
380/400 VAC- 220/230 VAC
50-60 Hz



GENERATOR

30kVA-3000kVA/kW
230/400 VAC
50-60 Hz



AUTOMATIC TRANSFER SWITCH ATS

1 PE - 3 PE
40-6300A



STATIC TRANSFER SWITCH

1 PE - 3 PE
50A-3000A



BATTERIES

VRLA, AGM, JEL, OPZS, OPZU, NI-CD, LI-ION



ESS - ENERGY STORAGE SYSTEMS (HIGH POWER)

30 - 1000 kVA/kWh
200KW PCS Capacity



HOME ESS (LOW POWER)

10KWh-15KWh-20KWh



SOLAR INVERTER

5kW-1500kW/kW
1/3 Phase, 220/230 & 380/400 VAC
50-60 Hz



INDUSTRIAL INVERTER

Up to 1500kVA/kW
48/110/220 VDC ±10% *
220/380 VAC ±1%
50-60 Hz

* Specification may be modified upon customer requst and subject to technical feasibility.

PWR33 SIRIUS SERIES ONLINE UPS

10 kVA - 1500 kVA

3 PHASE INPUT - 3 PHASE OUTPUT

PWR33 Sirius Model Online UPS uses the latest DSP technology that can be programmed for a wide variety of electrical environments without compromising on performance. It works safely in private and public hospitals, airports, factories, industrial facilities, banks, shipyards, power plants, etc. IT sectors.



SPECIFICATIONS

- Transformerless design
- Low input current harmonic distortion <3%
- High input power factor 0.99
- Static bypass switch
- Maintenance bypass switch
- A short circuit and overload protection
- Quad-core DSP architecture for inverter and PFC control
- High-capacity charging current
- Charge/Discharge current display
- Event memory (500 unit)
- Regenerative feedback protection
- RS232 and dry contact output
- Compact design
- 1 year warranty for export



Standalone



Outdoor Cabinet (IP54)



Portable Cabinet



Container applications

Application Areas



Hospitals



Industrial Facilities



Data Centers



Airports



Container

PWR33 SIRIUS SERIES ONLINE UPS

TECHNICAL SPECIFICATIONS

10 kVA - 1500 kVA

INPUT	Voltage	380 / 400 VAC ± %20 (3 Phase + Neutral + Protective Earth)
	Rated frequency	50 Hz / 60 Hz
	Frequency range	45 Hz / 65 Hz
	Power Factor	≥0,99 (full load)
	Bypass voltage range	380 / 400 VAC ± %20
	Total harmonic distortion (THDi)	≤ 3% (linear load)
OUTPUT	Voltage *	380 / 400 VAC ± %1 (3 Phase + Neutral + Protective Earth)
	Frequency range *	50Hz ± 3% (adjustable) synchronization range with mains; in battery mode: 50Hz ± 0.2%
	Waveform	Sinusoidal
	Power Factor	0.8 (optional 0.9 - 1)
	Total harmonic distortion (THDv)	≤ 1% (linear load); ≤5% (non-linear load)
	Crest Factor (CF)	3:1
	Overload Capacity	10 minutes at 125% load, 1 minute at 150% load
BATTERIES	DC bus voltage	± 810 Vdc
	Number of battery	60 piece (2×30 symmetrical)
	Charging current (max.)	0.1C
	Internal battery	No internal battery
	Battery type	Li-Ion, Lead Acid, Ni-Cd, OPZV, OPZS
SYSTEM	Protections	Short circuit, overload, overtemperature, battery voltage low / high , mains voltage low / high
	Communications	Standart configuration: RS232, RS485 (Modbus RTU). Optional configuration: SNMP card, dry contacts.
	Display	graphics LCD 3-inch
OTHERS	Operating temperature *	0°C / +40°C
	Storage temperature	-25°C / +55°C (without battery)
	Relative humidity	%0-95 (non-condensing)
	IP rating *	IP 20
	Noise level at 1m **	≤ 65 dB
	Galvanic isolation	Standard for marine (on-board) applications, optional for shore applications.

*Specifications and configurations may be modified upon customer request and subject to technical feasibility.

**As power increases, noise levels may increase.

Note: Power Elektronik reserves the right to make changes to the specifications and design without prior notice.

PHYSICAL PROPERTIES

Power (kVA)	10 kVA	20 kVA	30 kVA	40 kVA	60 kVA	80 kVA	100 kVA	120 kVA	160 kVA	200 kVA
Dimensions (W×D×H)(mm)	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	550 × 800 × 1300	550 × 800 × 1300	800 × 1100 × 1600	800 × 1100 × 1600
Weight (kg)	112 kg	117 kg	124 kg	185 kg	200 kg	255 kg	290 kg	370 kg	510 kg	560 kg
Power (kVA)	**250 kVA**	**300 kVA**	**400 kVA**	**500 kVA**	**600 kVA**	**800 kVA**	**1000 kVA**	**1200 kVA**	**1500 kVA**	
Dimensions (W×D×H)(mm)	1610 × 850 × 1900	1610 × 850 × 1900	2000 × 850 × 2000	2000 × 850 × 2000	2200 × 850 × 2000	4000 × 850 × 2000	4000 × 850 × 2000	6000 × 850 × 2000	6000 × 850 × 2000	
Weight (kg)	720 kg	760 kg	850 kg	970 kg	1100 kg	1550 kg	1960 kg	2150 kg	2600 kg	

RECTIFIER & BATTERY CHARGERS



1 PHASE RECTIFIER

25A–100A
220/230 VAC
24/30/48/110/125/127/220 VDC
50–60 Hz ±5%



3 PHASE RECTIFIER

30A–200A
380/400 VAC
24/30/48/110/125/127/220 VDC
50–60 Hz ±5%



3 PHASE RECTIFIER

100A–1000A
380/400 VAC
24/30/48/110/125/127/220 VDC
50–60 Hz ±5%

SPECIFICATIONS

- 16-Bit DSP Control
- Graphic LCD Screen
- 5 Control Buttons
- Low Output Ripple (<5%)
- Dry Relay Contacts for SCADA Monitoring
- Overtemperature Protection
- Overload Protection
- Output Short-Circuit Protection
- DC+ and DC– Leakage Protection
- Programmable Automatic Boost Charge Function
- Programmable Float Charge Function
- Real-Time Input, Output and Battery Voltage/Current Monitoring
- Transformer and Thyristor-Based Digitally Controlled Rectifier Technology
- Voltage and Current Control
- Dropper Diode DC Voltage Regulation
- Front Access
- Input Frequency: 50/60 Hz ±5%
- Input Surge and Fuse Protection
- Status and Alarm LEDs
- Mimic Diagram
- Double Safety Door Protection
- Optional High IP Protection
- 1 year warranty for export

Application Areas



RECTIFIER & BATTERY CHARGERS

TECHNICAL SPECIFICATIONS

		SINGLE-PHASE	THREE-PHASE
INPUT	Voltage range	220 VAC ± %15	380-400 VAC ± %15
	Rated frequency	50 / 60 Hz ± %5	
	Input Fuse Configuration	MCB,MCCB	
	Configuration	Single Charger (Power Supply Optional)	
	Input Isolation Transformer	Yes	
OUTPUT	Voltage range VDC	12V, 24V, 30V, 48V, 110V, 220V	24V, 48V, 110V, 125V, 127V, 220V, 250V >Ops.
	Current	5A /10A /15A /20A /25A /30A /40A /50A /60A > Ops.	10A/ 20A/ 25A/ 30A/ 40A/ 60A/ 100A/ 120A/ 160A/ 200A/ 300A/ 500A> Ops
	Dropper	Ops.	
	Ripple	Without battery <5%, with battery<1%	
	Voltage Regulation	±1% RMS in battery mode	
	Output Breakers	MCB, MCCB	
	Additional Distribution Breakers	Ops.	
BATTERY	Battery Type	Lead Acid, Ni-Cd, OPZV, OPZS (Li-ion Ops)	
	Charging Characteristic	DIN 41773	
	Battery settlement	External metal shelf	
	Battery Configuration	1 string per charger	
CABIN	Cabin Type	Floor mounted	
	Cooling	Thermostat controlled fan cooling	
	Cable Entry	Bottom entrance	
	Label	Gray glued	
	Cabin Lighting	Yes	
	Control and LCD	Graphic LCD	
	Door Stopper	Right	
GENERAL SPECIFICATIONS	LCD Language	Turkish, English (Other Languages Optional)	
	Colour	RAL 7032	
	Locking	Lockable	
	Operating Temperature	0°C/ +40°C	
	Anti-condensation heater	Yes	
	Storage Temperature	+25°C/ +55°C	
	Communication	RS232, Dry Contact Relay, RS485	
	Height	Maximum altitude of 1000m above sea level.	
	Standard	IEC 60146-1-1 (MIL-STD-xxx, Loyd Ops.)	
	Noise Level	<65 dB	
	Moisture	<90%	
	Insulation Voltage	2 kV (1 min)	
	Protection Class	IP21 (IP3X, IP4X, IP5X Ops.)	
PROTECTIONS	Protections	DC low/high voltage, Phase failure, Input mains surge and fuse, DC+- ground leakage, DC surge, Double safety door, Over-Temperature, Reverse battery connection, Emergency stop, Output short circuit, IP protection (optional)	

Note 1 : Technical specifications and configurations are subject to change based on customer requirements and technical feasibility.

Note 2 : Noise levels may increase as power output rises.

Note 3 : Power Elektronik reserves the right to modify technical specifications and design without prior notice.

STATIC FREQUENCY CONVERTER

10 kVA - 2000 kVA

Rated Frequency

400Hz

Static Frequency Converters are used to meet the 400Hz energy needs of military ships and military aircraft during ground testing. It supports maintenance and testing operations by converting 50/60 Hz mains power to aviation standard compliant power. It offers safe operation with its protection features.



SPECIFICATIONS

- Microprocessor controlled
- Durable design specifically for marine applications
- Converter control software
- Graphical LCD display panel
- Overload protection
- Soft-Start
- Output current limiting property
- Over-temperature protection
- Fast dynamic response
- Connector and panel interlocks
- Voltage drop compensation
- Galvanic isolation (optional)
- Compact construction, easy installation
- Supports remote monitoring and control



Standalone



Outdoor Cabinet (IP54)



Portable Cabinet



Container applications

Application Areas



Military Air Bases



Missile, Radar & Test Systems



Military Ships



Above-Ground Aircraft Shelters



Hangar Maintenance Areas



Fixed GPU



Portable GPU

STATIC FREQUENCY CONVERTER

TECHNICAL SPECIFICATIONS

10 kVA - 2000 kVA

INPUT	Voltage	110-208-380–400-415-440 VAC
	Rated frequency	50 / 60 / 400 Hz
	Frequency range	±6%
	Power factor	≥0,99 (full load)
	Total harmonic distortion (THDi)	≤ 5% (linear load) / (typically 3%)
AC OUTPUT	Rated voltage *	110-208-380–400-440-480 VAC
	Rated frequency	400 Hz
	Frequency range *	360-440 Hz (Special designs can be made outside these frequencies.)
	Frequency tolerance	±0.1%
	Voltage regulation	±%1
BATTERIES (optional)	DC bus voltage	± 810Vdc
	Number of battery	60 piece (2×30 symmetrical)
	Charging current (max.)	0.1C
	Charging time	Depends on battery capacity
	Battery type	Li-Ion, Lead Acid, Ni-Cd, OPZV, OPZS
DC OUTPUT (optional)	Rated voltage	28Vdc
	Adjustable Tolerance	±10%
	Output Current	600 A
SYSTEM	Protections	Short circuit, overload, overtemperature, overcurrent, battery voltage low / high , mains voltage low / high, Input / Output frequency out-of-tolerance protection, Input / Output phase loss protection, Output voltage out-of-tolerance protection, Output DC component protection, DC bus under / over voltage protection
	Communications	Standart configuration: RS232, RS485 (Modbus RTU). Optional configuration: SNMP card, dry contacts.
	Display	graphics LCD 3-inch
OTHERS	Operating temperature *	0°C / +40°C
	Storage temperature	-25°C / +55°C (without battery)
	Relative humidity	%0-95 (non-condensing)
	IP rating *	IP 20, 30, 43, 54
	Noise level at 1m **	≤ 65 dB
	Galvanic isolation	Optional

*Specifications and configurations may be modified upon customer request and subject to technical feasibility.

**As power increases, noise levels may increase.

Note: Power Elektronik reserves the right to make changes to the specifications and design without prior notice.

PHYSICAL PROPERTIES										
	Power (kVA)	10 kVA	20 kVA	30 kVA	40 kVA	60 kVA	80 kVA	100 kVA	120 kVA	160 kVA	200 kVA
	Dimensions (W×D×H)(mm)	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	550 × 800 × 1300	550 × 800 × 1300	800 × 1100 × 1600	800 × 1100 × 1600
	Weight (kg)	112 kg	117 kg	124 kg	185 kg	200 kg	255 kg	290 kg	370 kg	510 kg	560 kg
	Power (kVA)	250 kVA	300 kVA	400 kVA	500 kVA	600 kVA	800 kVA	1000 kVA	1200 kVA	1500 kVA	2000 kVA
	Dimensions (W×D×H)(mm)	1610 × 850 × 1900	1610 × 850 × 1900	2000 × 850 × 2000	2000 × 850 × 2000	2200 × 850 × 2000	4000 × 850 × 2000	4000 × 850 × 2000	6000 × 850 × 2000	6000 × 850 × 2000	8000 × 850 × 2000
	Weight (kg)	720 kg	760 kg	850 kg	970 kg	1100 kg	1550 kg	1960 kg	2150 kg	2600 kg	3300 kg

STATIC FREQUENCY CONVERTER

10 kVA - 2000 kVA

Rated Frequency

50Hz, 60Hz



SPECIFICATIONS

- Microprocessor controlled
- Durable design specifically for marine applications
- Converter control software
- Graphical LCD display panel
- Overload protection
- Soft-Start
- Output current limiting property
- Over-temperature protection
- Fast dynamic response
- Connector and panel interlocks
- Voltage drop compensation
- Galvanic isolation (optional)
- Compact construction, easy installation
- Supports remote monitoring and control



Standalone



Outdoor Cabinet (IP54)



Portable Cabinet



Container applications

Static Frequency Converters

are used to meet the 50Hz, 60Hz, 400Hz energy needs of military ships and military aircraft during ground testing. Depending on the intended use, vibration, shock, EMC, and other tests are performed and certified by accredited laboratories.

Application Areas

Passenger and cargo ships, Military ships, Offshore oil/ natural gas platforms, Port and shipyard electrical infrastructure.



Portable Cabinet
Above-Ground Aircraft Shelters



Military Ships



Military Air Bases

STATIC FREQUENCY CONVERTER

TECHNICAL SPECIFICATIONS

10 kVA - 2000 kVA

INPUT	Voltage	3×380 / 3×400 / 3×440
	Rated frequency	50 / 60 / 400 Hz
	Frequency range	45 Hz / 65 Hz
	Power Factor	≥0,99 (full load)
	Total harmonic distortion (THDi)	≤ 5% (linear load) / (typically 3%)
OUTPUT	Voltage*	3×115V, 3×200V, 3×380V, 3×400V, 3×440V
	Frequency range*	50Hz , 60Hz (Special designs can be made outside these frequencies.)
	Waveform	Sinusoidal
	Power Factor	0,8
	Total harmonic distortion (THDv)	≤ 3% (linear load) / (typically 1%) ; ≤5% (non-linear load)
	Crest Factor (CF)	3:1
	Overload Capacity	10 minutes at 125% load, 1 minute at 150% load
BATTERIES (optional)	DC bus voltage	± 810Vdc
	Number of battery	60 piece (2×30 symmetrical)
	Charging current (max.)	0.1C
	Charging time	Depends on battery capacity
	Battery type	Li-Ion, Lead Acid, Ni-Cd, OPZV, OPZS
SYSTEM	Protections	Short circuit, overload, overtemperature, battery voltage low / high , mains voltage low / high
	Communications	Standart configuration: RS232, RS485 (Modbus RTU). Optional configuration: SNMP card, dry contacts.
	Display	graphics LCD 3-inch
OTHERS	Operating temperature	0°C / +40°C
	Storage temperature	-25°C / +55°C (without battery)
	Relative humidity	%0-95 (non-condensing)
	IP rating*	IP 20
	Noise level at 1m**	≤ 65 dB
	Galvanic isolation	Standard for marine (on-board) applications, optional for shore applications.

*Specifications and configurations may be modified upon customer request and subject to technical feasibility.

**As power increases, noise levels may increase.

Note: Power Elektronik reserves the right to make changes to the specifications and design without prior notice.

PHYSICAL PROPERTIES

Power (kVA)	10 kVA	20 kVA	30 kVA	40 kVA	60 kVA	80 kVA	100 kVA	120 kVA	160 kVA	200 kVA
Dimensions (W×D×H)(mm)	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	500 × 800 × 1200	550 × 800 × 1300	550 × 800 × 1300	800 × 1100 × 1600	800 × 1100 × 1600
Weight (kg)	112 kg	117 kg	124 kg	185 kg	200 kg	255 kg	290 kg	370 kg	510 kg	560 kg
Power (kVA)	**250 kVA**	**300 kVA**	**400 kVA**	**500 kVA**	**600 kVA**	**800 kVA**	**1000 kVA**	**1200 kVA**	**1500 kVA**	**2000 kVA**
Dimensions (W×D×H)(mm)	1610 × 850 × 1900	1610 × 850 × 1900	2000 × 850 × 2000	2000 × 850 × 2000	2200 × 850 × 2000	4000 × 850 × 2000	4000 × 850 × 2000	6000 × 850 × 2000	6000 × 850 × 2000	8000 × 850 × 2000
Weight (kg)	720 kg	760 kg	850 kg	970 kg	1100 kg	1550 kg	1960 kg	2150 kg	2600 kg	3300 kg

SOLAR CORPORATE REFERANCES



FİNA ENERJİ A.Ş. / 10.7 MWp / DENİZLİ OSB / 2017



FİLYOS / 1385 KWp / 1100KWe / ZONGULDAK



ÜRGÜP BELEDİYESİ / 1.1 MWp / 1 MWe /
NEVŞEHİR / 2026



ALAPLI / 576 KWp / 450 KWe / ZONGULDAK /
2026



TRABZON ATEŞLER ORMAN ÜRÜNLERİ /
414,96 KWp / 330 KWe / TRABZON



EMLAK KONUT PROJE / 1MWp / 2013-2025



EMLAK KONUT / 100KWp / İSTANBUL /2020



SEASTAR OTEL / ALANYA



100 MWp / NETHERLANDS / 2020



GÜVEN VE MUDO GES / 2.2 MWp /
KAHRAMANMARAŞ / 2017



NETHERLANDS SCHIPHOL AIRPORT /
1.2 MWp / NETHERLANDS/ 2020



KİPTAŞ / 1.3 MWp / İSTANBUL / 2018



HÜRÇELİK / 1.2 MWp / GEBZE / 2021



PADO GES / 330 KWp / ERZURUM / 2015



NUH PANEL / 200 KWp / GEBZE / 2016



GALATAPORT / 150 KWp / İSTANBUL / 2021



TROPICANA OTEL / 42 KWp / MUĞLA / 2019

SOLAR CORPORATE REFERANCES



MOTOR AŞİN GES /
160 KWe / 150 KWh / İSTANBUL / 2024



BAĞYURDU OSB GES /
1660 KWp / 1600 KWe / İZMİR / 2023



ÖRMA / 3051.4 KWp / 2460 KWe / DÜZCE / 2024



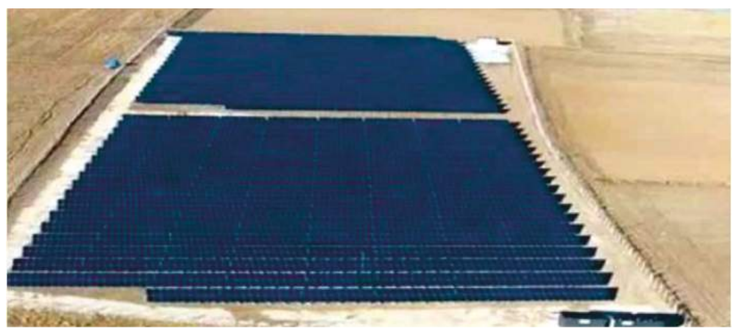
ALANYA GES / 3.3 MWp / ANTALYA / 2017



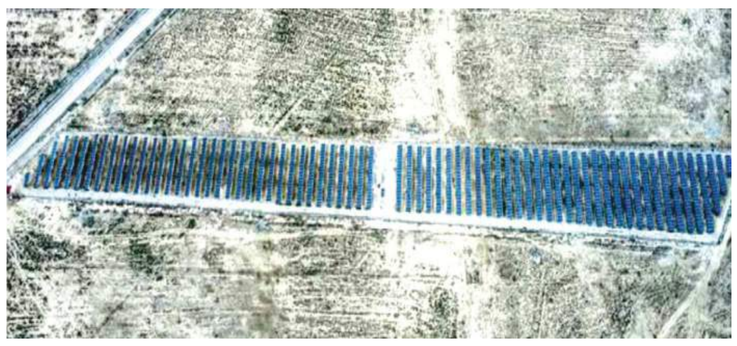
İSKİ / 2.7 MWp / İSTANBUL / 2019



20.BÖLGE DSİ / 2.2 MWp / ADIYAMAN / 2016



CEVİZLİBAĞ OTEL / 1.8 MWp / BİTLİS ADİLCEVAZ /
2017



FİNA ENERJİ / 1.2 MWp / DENİZLİ / 2018



TALAS BELEDİYESİ / 1.15 MWp / KAYSERİ / 2016



ODTÜ / 1 MWp / KIBRIS / 2016



YAPRAKLAR DOKUMA / 1 MWp / DENİZLİ / 2023



MESA SÜT / 518 KWp / TEKİRDAĞ / 2018



ADİLCEVAZ BLD. / 500 KWp / BİTLİS / 2013



AMASYA ÜNİ. / 200 KWp / AMASYA / 2016



TESKİ / 159 KWp / TEKİRDAĞ / 2018



GÜNAL GEMİ / 304 KWp / 250 KWe /
KOCAELİ / 2024



SMS TORK / 610 KWp / 500 kWe / KOCAELİ / 2024



LUXEMBURG CENTRAL BANK / 420 KWp /
325 kWe / LUXEMBURG / 2026

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