

TekSea[®]

TEKPOWER

Technical Catalog **Modular UPS**



- Advanced solution for critical applications
- High energy efficiency and intelligent control
- Reduced physical space and operational cost
- User-friendly interface and remote monitoring
- High capacity and reliability

FEATURES

- Operation in systems
3F-3F / 3F-1F / 1F-3F
- Online - Double Conversion
- Performance Classification
VFI-SS-111 (IEC 62040-3)
- Modular, Redundant System
- Scalable up to 120 kVA (stand-alone)
- Allows parallel operation between UPS units
- Efficiency up to 96%
- Unity output power factor
- Low harmonic distortion levels
- Compatible with large-capacity batteries
- ECO Mode Function
- Frequency Converter Function
- Ethernet access
- Available with various communication protocols:
Modbus RTU, Modbus TCP, DNP3, SNMP, MMS IEC61850
- Compliance with international standards



TekSea

06-2025



HMI

7" color LCD Touchscreen

IoT functions

Fully digital and modern control

Real-time updates

100,000 historical records

Power Module

Modular, parallelizable

Standard 2U module

Hot-Swap

Unity power factor

High level of power quality

Communication Protocols

Modbus RTU

Modbus TCP

DNP3

SNMP v1, v2c and v3

MMS IEC 61850

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TECHNICAL SPECIFICATIONS

General Data	Power Range	Up to 120 kW
	Nominal Power (module)	20kW
	Batteries*	± 240 Vdc
	Topology	Online Double Conversion
	Parallel Configuration	32 modules (up to 8 UPS)
	Technology	Modular
Main Input	System	3F + N + PE
	Nominal Voltage	380/400/415 Vac (F-F) 220/230/240 Vac (F-N)
	Nominal Frequency	50 / 60 Hz
	Power Factor	>0.99
	Current Distortion	THDi < 3% (100% linear load)
	Voltage Range	304–478 Vac (F-F) – nominal power 304–228 Vac (F-F) derating 50% of power
	Frequency Range	40 to 70 Hz
Bypass Input	Nominal Voltage	380/400/415 Vac (F-F) 220/230/240 Vac (F-N)
	Voltage Range	Standard: -20% / +15% Configurable: -40% / +25%
	Overload	110%: Continuous operation 110% < load < 125%: 5 minutes 125% < load < 150%: 1 minute
Inverter	Nominal Voltage	380/400/415 Vac (F-F) 220/230/240 Vac (F-N)
	Nominal Frequency	50 / 60 Hz
	Power Factor	1.00
	Static Regulation	± 1.00%
	Dynamic Regulation	<5% (load step 20%–80% / 80%–20%)
	Recovery Time	< 20 ms (load step 0%–100% / 100%–0%)
	Output THDv	According to IEC 62040-3: <1% (linear load) <5% (non-linear load)
	Overload	110%: 1 hour 125%: 10 minutes 150%: 1 minute > 150%: 200 ms
	Frequency Regulation	0.1%
	Synchronization Range	Standard: ±3 Hz Configurable: ±0.5 Hz to ±5 Hz
	Synchronization Speed	Standard: 0.5 Hz/s Configurable: 0.5 Hz/s to 3 Hz/s
	Phase Accuracy	120°±0.5°

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TekSea Sistemas de Energia Ltda.

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Brasil - São Paulo

Av. Antônio Artioli, 570,
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 CEP 13049-253, Campinas,
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TECHNICAL SPECIFICATIONS

Efficiency	Normal Mode	Up to 96%
	ECO Mode	Up to 98%
System	Display	LED + 7" touchscreen
	Standard Communication Protocols	Modbus RTU - RS485 Dry Contact
	Ethernet Communication Protocols (optional)*	Modbus TCP DNP3 SNMP v1, v2c and v3 MMS IEC61850
	Additional Configurations	Local configuration software (USB, RS232, RS485) Web Supervisor Cold-Start
Environmental Conditions	Operating Temperature	0 ~ 40°C
	Storage Temperature	-25 ~ 70°C
	Humidity	0 ~ 95%
	Noise (dB)	65dB
Certifications and Standards	Compliance with:	IEC61000-4-2 (ESD Immunity) IEC61000-4-3 (Radiated RF Immunity) IEC61000-4-4 (EFT/Burst Immunity) IEC61000-4-5 (Surge Immunity) IEC62040-1 (UPS Safety)

* Other options upon request.

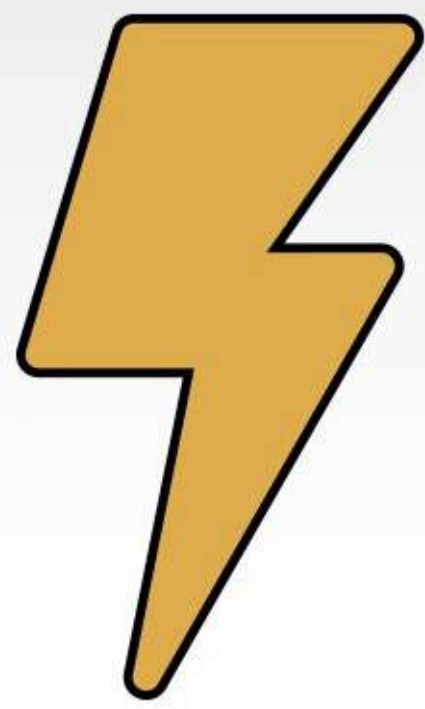
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Discover other solutions from our portfolio



Energy

Thyristor and Switched Rectifier Chargers
(with and without battery bank)

BMS - Battery Monitoring System

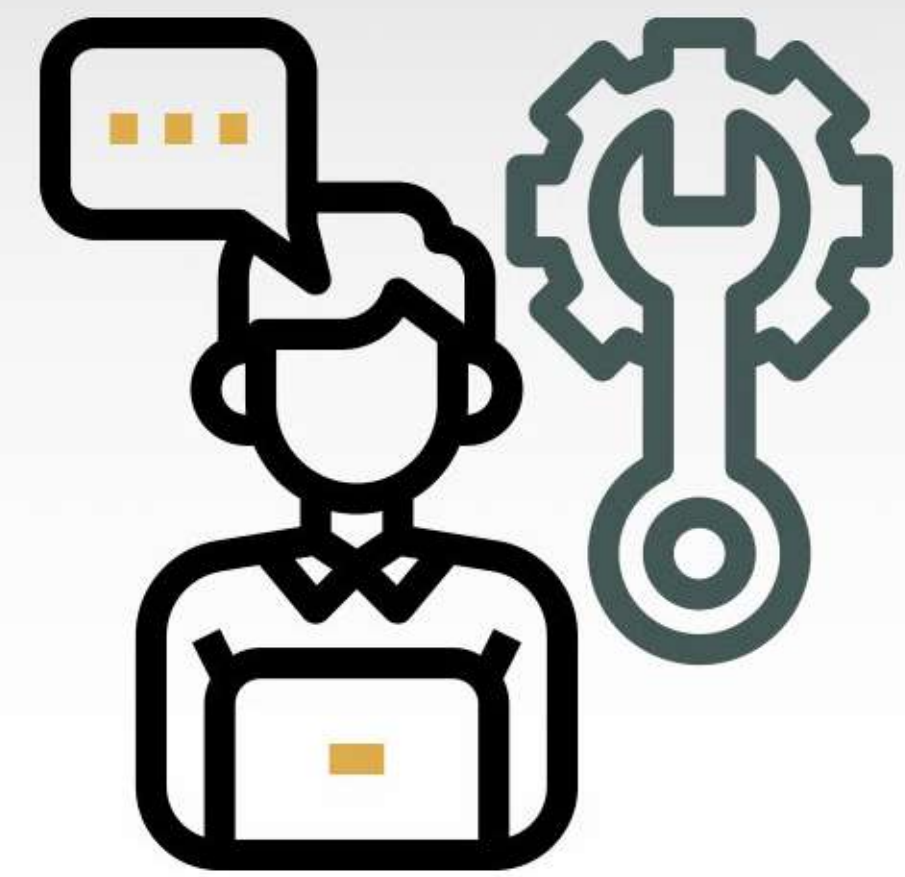
DC/AC Inverters with static switch



Integration

Electrical Panels for Auxiliary Services

Monitoring and Automation Systems



Services

Maintenance contracts and specialized technical support

Spare parts supply

Retrofit and modernization services

Hotline support 24/7

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Get in touch and learn how to integrate these solutions into your project.

Need more information?



www.teksea.net

The information contained in this document consists of general descriptions of the available technical solutions and is for reference purposes only.

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