



HSP Series

Holistic Shore Power

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Key Features & Benefits

- + Galvanically isolated from the input.
- + Efficiency: 95% @ 30%-100% load.
- + Low harmonic distortion.
- + Excellent voltage stability and response time.
- + Bidirectional connection to the main switchboard.
- + Seamless power transfer with generators.
- + Power sharing with generators.
- + Generators power conditioning (filtering).
- + Power consumption from generators for supplying the optional secondary output while it's not connected to shore.

Applications

MARINE

Silent Operation at Anchor

Hybrid Propulsion

PTO Power Generation

Shore Power Optimization

Battery-Boost Propulsion

Reduced Genset Runtime

Galvanically-Isolated Chase Boats Charging

Multi-Grid Support

INDUSTRIAL

Industrial Equipment Assist

Off-Grid Sites

Mobile Hybrid Power Batt/Gensets

Commercial Silent Backup

EV Charger Support

Solar + Battery Hybrid

Technical Specifications

OUTPUT

Models	HSP050	HSP075	HSP100	HSP125	HSP150	HSP175	HSP200
Galvanically isolated from the input	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Output Voltage	3-phase + neutral, 240-480 V (p-p), 50 Hz or 60 Hz						
Output Power (models)	50kVA	75kVA	100kVA	125kVA	150kVA	175kVA	200kVA
Max power with combination of models	1.3 MVA						
Peak Power (for 10min)	125% of rated power						
Voltage Accuracy	Max. 1%						
Voltage Distortion	<3%						
Dynamic Voltage Stability	5% (recovery time: 20 ms)						
Power Factor	>0.8						
Harmonic Distortion	<3%						
Efficiency	95% @ 30%-100% load						
Bidirectional connection to the main switchboard	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seamless power transfer with generators	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power sharing with generators	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Generators power conditioning (filtering)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Technical Specifications

INPUT

Models	HSP050	HSP075	HSP100	HSP125	HSP150	HSP175	HSP200
Input Voltage	3 x 170–530 VAC, 3-phase, or 2-phase no neutral						
Inputs Cables*	1	2	2	3	3	4	4
Frequency Range	45–65 Hz						
Power Factor	0.99						
Max Input Current/Phase (A)	80	160	160	240	240	320	320
Input Total Harmonic Distortion	≤5% @ 50%–100% full load						
Earth Leakage	<10 mA						
Protection	Over/Under Voltage, Over Current, Voltage Transients, Short Circuit						

* Inputs may be connected independently to different pillars, paralleled together, or grouped as required.

Technical Specifications

ENVIRONMENTAL

Models	HSP050	HSP075	HSP100	HSP125	HSP150	HSP175	HSP200
IP Rating	IP22						
Protection from sea water humidity	Conformal coating and glue filling for high protection and reliability						
Ambient Temperature	0°C to 75°C (derating at 55°C)						
Humidity	Up to 95%						
Air cooled, max. air flow (m³/h)	600	600	600	600	1000	1000	1000

COMPLIANCE & RELIABILITY

Models	HSP050	HSP075	HSP100	HSP125	HSP150	HSP175	HSP200
Compliance	EMC: EN61000-6-2 / EN61000-6-4 Safety Compliance: EN62477-1:2012/A12:2021, UL1741						
Reliability	MTBF: >300,000 hours						

INTERFACE

Models	HSP050	HSP075	HSP100	HSP125	HSP150	HSP175	HSP200
Interface	IP protocol, CAN bus, 8 digital I/O, Modbus, Main switchboard power sensing						
Control	7" Color touch screen (1024 x 600) Remote sensing and control via Ethernet connection						

Technical Specifications

OPTIONS

	Models	HSP050	HSP075	HSP100	HSP125	HSP150	HSP175	HSP200
1	OHP120 Secondary Output 20 kW, 3-Phase, Neutral and/or North American Split-Phase 240/120 V, 60 Hz	Inside standard chassis The required power is sourced from shore while connected, and from the main switchboard via the bidirectional output while sailing						
2	OHP120-GI Galvanically Isolated Secondary Output 20 kW, 3-Phase, 240– 480 V, for chase-boat and jet-ski charging	Inside standard chassis The required power is sourced from shore while connected, and from the main switchboard via the bidirectional output while sailing						
3	OHP140 Secondary Output 40KW, 3-Phase, Neutral and/or North American Split-Phase 240/120 V, 60 Hz	Not Available	Inside standard chassis The required power is sourced from shore while connected, and from the main switchboard via the bidirectional output while sailing					
4	OHP215 DC-DC Converter/ Charger for storage- battery connection*		EPC-300 Second chassis on the side needed Dimensions (mm): 563 W x 560 D x 800 H Weight (Kg): 170					
5	EPM300-1 EPM300-2 DC-Bus Extension for EPM300 motor/ alternator connection and control*		EPC-300 Second chassis on the side needed Dimensions (mm): 563 W x 560 D x 800 H Weight (Kg): 140					
6	OHP320 Low-Voltage 1-Phase Input 90–305 V AC, 45–65 Hz	Max. 15 kVA Output @ 120 V AC Input Not available						

* Options 4 and 5 can be combined into a single additional chassis on the side.

Mechanical Specifications

Models	HSP050	HSP075	HSP100	HSP125	HSP150	HSP175	HSP200
Length (mm)	560mm (with back cover removed for installation) 620mm (with back cover installed)						
Width (mm)	585mm						
Height (mm) Models above 50kVA come in two detachable, stacked sections for easier installation.	800	800 + 400	800 + 400	800 + 600	800 + 600	800 + 800	800 + 800
Weight (kg)	170	250	250	290	330	390	410

Contact us:



- + info@efalke.com
- + www.efalke.com
- + Riedstrasse 8, CH-8953 Dietikon, Switzerland