

FLATPACK S

8kW 24V_{DC} UPS System

The combination of cost-effective design, power density and reliability makes the Flatpack S 24V 8 kW a product family that truly stands out and provides unparalleled availability. The versatility of the Flatpack S rectifier means that it can be used in a wide variety of 24V DC marine applications across the globe.



FLATPACK S MARINE SYSTEM 8kW, 24V_{DC}

MARINE & OFFSHORE

Doc CS0825.000.DS3 – rev2

PRODUCT DESCRIPTION

The Flatpack S system is a 25U power system designed to use in 24V_{DC} Marine applications. Marine filters are fitted on the input that makes this system meet the DNV requirement for marine applications. Flexible alarm and monitoring options are included. Modular design.

APPLICATION

- Offshore
- Ships
- SAS systems
- Part of the Eltek Central Power System



KEY FEATURES

- POWERED FROM AC OR DC
- COMPLETE SYSTEM
 - BATTERY TERMINALS
 - LOAD DISTRIBUTION
 - HOT PLUGGABLE RECTIFIERS
 - HOT PLUGGABLE CONTROLLER
- OPTIONAL SIL 3 RECTIFIERS
- MEETS EN-60945 EMC REQUIREMENTS WITH MARINE FILTERS



ABS



DNV

FLATPACK S MARINE SYSTEM



MODEL		FLATPACK S MARINE SYSTEM 8KW, 24V _{DC}
Part number	CS0825.000	
INPUT DATA		
Nominal voltage	185V _{AC/DC} - 305V _{AC} / 300V _{DC}	
Voltage range (DC)	85V _{AC/DC} - 305V _{AC} / 300V _{DC}	
Nominal current (at nominal input, full load)	5.9A _{RMS} (one module)	
Input connection	10 mm ² terminals	
Input protection	2 x C32A 2 pole MCB	
Marine filters	Optional	
OUTPUT DATA		
Nominal voltage	26.7 V _{DC}	
Voltage range	21.5 - 28V _{DC}	
Current – one rectifier	41.7A (@V _{OUT} < 24V _{DC}) (333A with 8 rectifiers)	
Output power	8kW maximum (with 8 rectifiers)	
Load connection	20mm ² terminals. Load MCB: 6x6A 2p, 14x10A 2p, 8x16A 2p +Alarm	
Protection on each rectifier	Blocking OR-ing FET, short circuit proof, high temperature protection	
Overvoltage protection on SIL 3 rectifier	Protection level: 30V Proof test interval: 15 years Handles dual component failure	
Battery connection	70mm ²	
Alarm connection	2,5mm ²	
CONTROL AND MONITORING		
Smartpack S	6 x Input/Output and Ethernet	
Alarm connections	Plug-in wire connectors rear access for 6 potential free relays 1.5mm ²	
OTHER SPECIFICATIONS		
Isolation	3.0 kVAC – input to output; 1.5 kVAC – input to earth 0.5 kVAC – output to earth	
Operating temperature	-40 to +85°C (-40 to +185°F), humidity 5 - 95% RH non-condensing	
Storage temperature	-40 to +85°C (-40 to +185°F), humidity 0 - 99% RH non-condensing	
Dimensions	1200 x 600 x 600 mm (HxWxD) with plinth 100mm	
Weight	Net weight: 131 kg, Gross weight 173 kg	
DESIGN STANDARDS		
Cabinet	IP44	
EMC	ETSI EN 300 386 V.1.6.1 EN 61000-6, -1, -2-8, -3, -4	
Safety	IEC/EN 60 950-1 & IEC 60945	
Marine	ABS (PENDING) DNV-OS-D202, Ch.2 Sec. 4 (DNV 2.4) o Temperature Cl. A o Vibration Cl. A o Humidity Cl. A o Enclosure Cl. A	
ORDERING INFORMATION		
CS0825.000	FPS 24V 8kW 2x220VDC 28x2P	
241122.205M/241122.290M	Rectifier Flatpack S 24 1000 HE/Flatpack S 24 1000 SIL3 OVP	