

# 2-pole HE power system

Designed with customer flexibility in mind

This small power dense system is purely based on pluggable breakers and rectifiers and can easily be configured to fit your required application, even in field. The combination of Flatpack S HE rectifiers and Smartpack S controller ensures safe, reliable and environmental friendly operation. With its shallow depth and flexibility the Flatpack S 2U 2-pole system fits most cabinets and is thereby excellent as replacement unit.



## Flatpack S 2U/3R 2-pole 24V<sub>DC</sub> (125A system with 2-pole distribution)

Doc MFGS0302.XXX.DS3 – rev1

### APPLICATIONS

#### RAILWAY & METRO INFRASTRUCTURE

- Control & Protection
- Signaling
- GSM-R
- Safety Systems
- Communication systems

#### POWER UTILITIES

- Control & Protection
- SCADA Systems
- Emergency lighting
- Diesel start applications

#### OFFSHORE – MARINE

- Safety and Automation Systems
- Communication onboard ships



Smartpack S Controller



Flatpack S 24V Rectifier

### KEY FEATURES

- COMPLETE SYSTEM
- SMARTPACK S CONTROLLER
  - HOT PLUGGABLE
- HIGH EFFICIENCY RECTIFIERS
  - HOT PLUGGABLE
- 2-POLE BATTERY DISTRIBUTION
  - PLUGGABLE BREAKERS
  - OPTIONAL LVBD
- 2-POLE LOAD DISTRIBUTION
  - 10 X 20A MCB POSITIONS
  - PLUGGABLE BREAKERS
- ADV. CONTROL AND MONITORING
  - EMBEDDED ETHERNET PORT
- 260MM SYSTEM DEPTH
  - PERFECT AS REPLACEMENT UNIT
- 2U HEIGHT
  - INCLUDING DISTRIBUTION
- 19" WIDE
  - FIT STANDARD RACKS AND CABINETS
- GLOBAL APPROVALS

# Flatpack S 2U/3R 2-pole 24V<sub>DC</sub>



Doc MFGS0302.XXX.DS3 – rev1

MODEL	FPS 2U/3R 2-POLE 24V	FPS 2U/3R 2-POLE 24V LVBD
Part number	MFGS0302.001	MFGS0302.002
<b>INPUT DATA</b>		
Voltage (nominal)	185V <sub>AC/DC</sub> – 305V <sub>AC</sub> / 300V <sub>DC</sub> <sup>1)</sup>	
Mains configuration (individual feed)	230V <sub>AC</sub> , 3 x 1 phase or 3 phase (Δ) 230/400V <sub>AC</sub> , 3 phase (Y)	
Maximum current	5,9A <sub>rms</sub> individual feed / 17,7A <sub>rms</sub> single feed	
Mains connection	4mm <sup>2</sup> terminal blocks, rear connection	
Frequency	45 – 66Hz	
<b>OUTPUT DATA</b>		
Nominal Voltage	24V <sub>DC</sub>	
Maximum current (total)	125A <sub>DC</sub>	
Maximum current distribution (total)	100A <sub>DC</sub>	
<b>BATTERY DISTRIBUTION</b>		
Breaker, 2-pole pluggable D-frame	1 x 100A <sub>max</sub>	
LVBD	N/A	Default
Connection (rear)	M6 studs (25mm <sup>2</sup> )	
Battery fuse alarm	Auxiliary switch	
<b>LOAD DISTRIBUTION</b>		
Breakers, 2-pole pluggable B-frame	10 x 20A <sub>max</sub>	
Connection (rear)	Screw terminals (10mm <sup>2</sup> )	
Load fuse alarm	Auxiliary switch	
<b>BULK OUTPUT</b>		
Protection	Unfused	
Connection (rear)	M6 Studs (25mm <sup>2</sup> )	
<b>CONTROL &amp; MONITORING</b>		
Smartpack S	6 x Input / Output and Ethernet <sup>2)</sup>	
<b>OTHER SPECIFICATIONS</b>		
Temperature	Operating: -40 to + 65°C full / +85°C derated Storage: -40 to + 85°C	
Coding	Coding to prevent insertion of incorrect power module	
Dimensions (W x H x D)	482,5 x 89 x 250mm	
Mounting	19" Flush mount	
Cooling	30mm space in front and back required for air flow	
Weight (without rectifiers and breakers)	Approx. 7kg	
<b>DESIGN STANDARDS</b>		
Electrical safety	UL 60950-1, EN 60950-1, CSA C22.2	
EMC	ETSI EN 300 386 V.1.6.1 EN 61000-6-1 / -2 / -3 / -4 FCC Part 15 Subpart 109	
Environment	ETSI 300 019-2 -1 Class 1.2 ETSI 300 019-2 -1 Class 2.3 ETSI 300 019-2 -1 Class 3.2	

1) See Flatpack S datasheet for details

2) See Smartpack S datasheet for details