

Flatpack S Stand-Alone PR

24V / 36V / 48V – 2R



Compact Stand-alone PR

The Flatpack S Stand-alone Power Rack is designed to be an easy to place, highly efficient DC power solution. It can house 2 Flatpack S rectifiers, and up to 3 units can easily be stacked together. Due to its small size, flexible mounting options and reliability, this unit is a key for future needs.

Applications

- Offshore and process industry
 - Safety and automation systems (SAS)
- Railway infrastructure
 - Control and protection
 - Signalling
- Telecom – fixed
 - Fiber optics / FTTX
 - Microwave
 - Cable
 - Broadband
- Telecom – mobile / wireless
 - Broadband

Key features

- Compact power rack
- Hot pluggable rectifiers
 - FPS 24/1000 HE SIL3 OVP
 - FPS 24/1000 HE
 - FPS 24/1800 HE
 - FPS 36/1000 HE UI
 - FPS 48/1000 HE
 - FPS 48/1000 SHE
 - FPS 48/1800 HE
- Easy to place
- Easy to expand
 - Up to 3 units can be stacked
- Easy to connect
 - Flying leads on input
- 274 mm depth
- Optional controller (EXT)
 - Compact
 - Smartpack
- Floating output
 - 48 V up to 10,2 kW
 - 36 V up to 6 kW
 - 24 V up to 6 kW

Flatpack S 1U Systems

24V / 36V / 48V – 2R

Model	FPS 2R power rac
Part number	241122.903

Input data	
Maximum voltage	300 V _{AC} / 400 V _{DC} ¹⁾
Maximum current	12 A _{rms} per feed ¹⁾
Mains configuration	230 V _{AC} , 2 x single phase + PE (individual feed)
Mains connection	Flying leads 1.5 mm ² length 2 meter
Frequency	45 to 66 Hz

Control & monitoring	
Controller options (external)	Compack Smartpack
Interface	RJ45 for paralleling units and connect controller
Alarm connection	3-pin (NC–C–NC), galvanic isolated, max 60 V _{DC} / 100 mA

Output data	
Maximum voltage	60 V _{DC}
Maximum current	85 A
Connections	M6 cable lug

Mechanical data	
Dimensions	See figures on next page for details
Weight	0.91 kg

Mounting	
<p>For wall mount or mounting plate. The unit can be mounted horizontally or vertically left or right. Up to 3 Power Racks can be stacked.</p>	

Design standards	
Electrical safety	EN IEC 62368-1:2020+A11:2020
EMC	ETSI EN 300 386 V.1.6.1 EN 61000-6-2 EN 61000-6-3 EN 61000-6-4 EN 61000-6-1
Environment	ETSI EN 300 019-2-1 (Cl.1.2) ETSI EN 300 019-2-2 (Cl.2.3) ETSI EN 300 019-2-3 (Cl.3.2)
Vibration	According to DNV 2.4

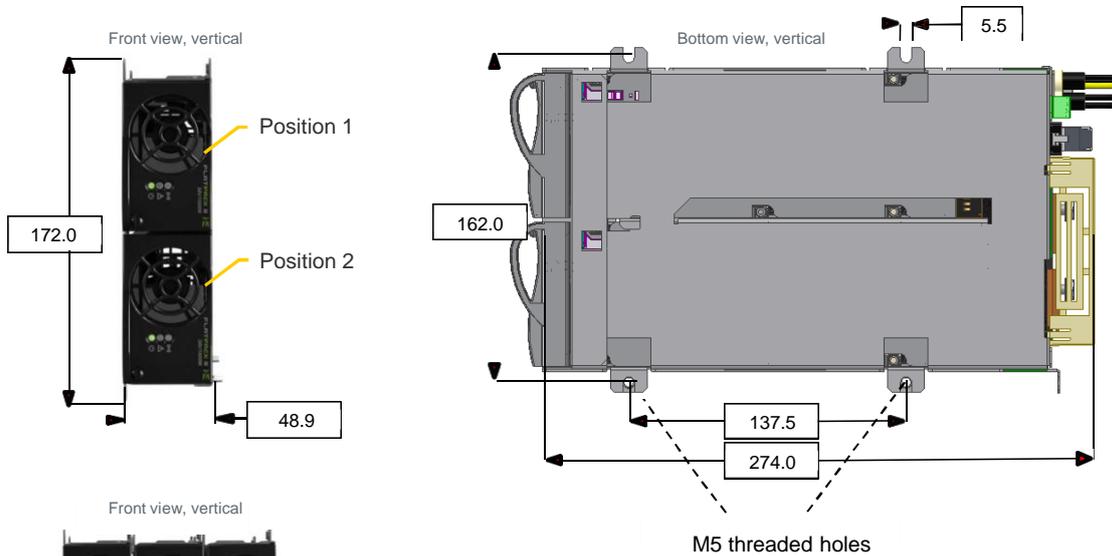
1) See applicable datasheet for selected rectifiers / DCDC converter

Specifications are subject to change without notice

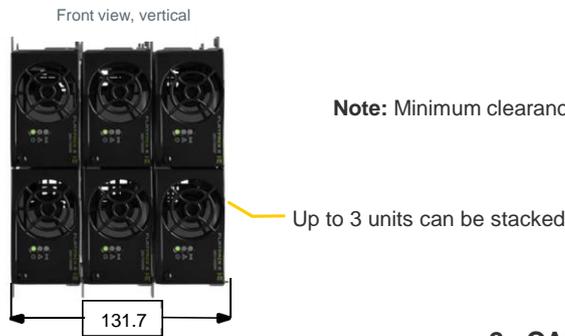
Flatpack S 1U Systems

24V / 36V / 48V – 2R

Dimensions / location of terminals & com. Ports



Note: Minimum clearance for airflow at the front and the rear of the unit: 30 mm
All dimensions given in mm



Mains input:
5x 1.5 mm² flying leads
2 m cable

2x CAN connectors:

RJ45 for connecting controller / CAN nodes and paralleling units
End of line resistor

Bracket for strain relief (Output cables)

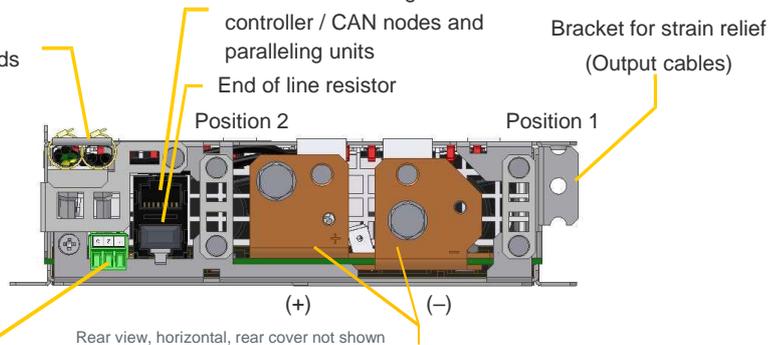
Module Alarm



NC C NC
Position 1 Position 2

Plug in screw terminals
Flat 3.5 mm

Torque: 1 Nm



Output terminals:

M6 insert nuts for connecting cable lug, bolt included

Torque: 6 Nm

Note: Contacts shown in alarm mode of operation with de-energized relay coils (fail safe mode)

Smarter. Greener. Together

www.delta-emea.com



Delta Electronics (Netherlands) B.V.,
Zandsteen 15 2132 MZ Hoofddorp, The Netherlands
Phone: +31 20 800 3900
www.delta-emea.com

Doc 241122.903.DS3 – v5

www.eltek.com

