

# Compact, full-featured DIN-rail power system

The Micropack System is convection cooled, designed for less power hungry applications, but still with system functionality options to match any requirements. Use as stand alone or in a flexible off the shelf configurable system.

The Micropack Power System extends your network one step further. With load ranges typically between 120W and 1000W, and in 12, 24 and 48V options, the system is perfect for a great variety of applications.



## Micropack System

For 12 V<sub>DC</sub>, 24V<sub>DC</sub>, 30V<sub>DC</sub> & 48 V<sub>DC</sub> output

DOCUMENT NO: 241120.90x.DS3 v3

### INDUSTRY APPLICATIONS

#### Telecom

- LTE/femto cells
- Small base stations / repeaters
- Fixed & mobile broadband
- FTTx

#### Power utilities

- Control & protection
- Scada
- Communication

#### Railway infrastructure

- Control & protection
- Signaling

Various other applications in demanding industries like Marine, Oil & Gas, process etc.



Micropack rectifiers



Compact controller

### KEY FEATURES

- ✓ Compact and shallow (149 mm deep)
- ✓ Din rail mountable
- ✓ On-site configurable
- ✓ Off the shelf delivery
- ✓ Stand-alone option (w/alarm relay)
- ✓ Plug-in breakers or bulk output
- ✓ Accepts 85 – 300 V<sub>AC/DC</sub> input
- ✓ 12, 24-30, 48 V<sub>DC</sub> output versions
- ✓ Ethernet for remote and local monitoring and control via WEB Browser
- ✓ SNMP protocol with TRAP, SET and GET on Ethernet. Email of TRAP alarms
- ✓ 3 digital programmable relay outputs
- ✓ 3 programmable multipurpose inputs ("digital inputs", battery midpoint or analog signals).

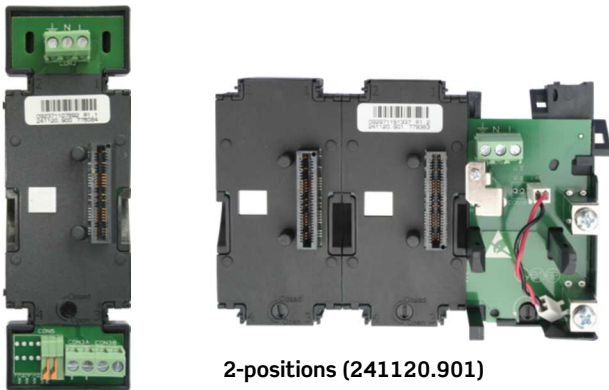
See reverse side for specifications

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## RECTIFIER POWER CORES



2-positions (241120.901)

Standalone (241120.900)



4-positions (241120.902)

## NEGATIVE DISTRIBUTIONS

Battery distribution with shunt, LVBD and sockets for 2 breakers (241120.910)

Load distribution with sockets for 4 breakers (241120.920)



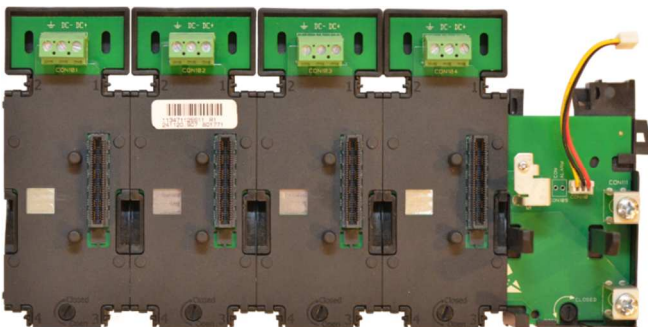
Plug-in battery and load breaker



## DC/DC CONVERTER POWER CORES



Standalone (241120.905)



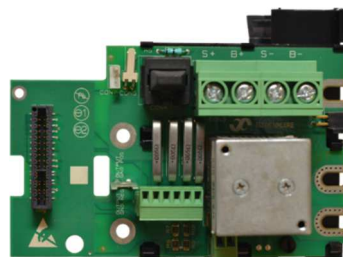
4-positions (241120.907)

## POSITIVE/FLOATING BULK OUTPUT

Bulk feed output (241120.911)



Battery bulk feed with shunt and contactor in positive leg. (241120.912 - 12 V<sub>DC</sub> only)



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## MARINE FILTER



Marine filter unit  
(241120.930)

## MICROPACK SYSTEM BUILDING BLOCKS - COMPABILITY MATRIX

Part number	Description	Output Voltage			Output grounding			Supports	
		12V	24V	48V	DC+	DC-	FLOAT	Rectifier	DC/DC
241120.900	Powercore -1	✓	✓	✓	✓	✓	✓	✓	✗
241120.901	Powercore -2	✓	✓	✓	✓	✓	✓	✓	✗
241120.902	Powercore -4	✓	✓	✓	✓	✓	✓	✓	✗
241120.905	Powercore -1	✓	✓	✓	✓	✓	✓	✗	✓
241120.907	Powercore -4	✓	✓	✓	✓	✓	✓	✗	✓
241120.910	Batt dist.	✗	✗	✓	✓	✗	✓ <sup>1)</sup>	✓	✓
241120.911	Bulk feed	✓	✓	✓	✓	✓	✓	✓	✓
241120.912	Bulk feed LVD	✓	✗	✗	✗	✓	✓	✓	✓
241120.920	Load dist.	✓	✓	✓	✓	✗	✓ <sup>1)</sup>	✓	✓
241120.930	Marine filter <sup>2)</sup>	✓	✓	✓	✓	✓	✓	✓	✓

1) Grounding of positive recommended  
2) For AC input

## EASY INSTALLATION - ON-SITE CONFIGURATION

### A few quick steps.....

- ✓ Start with a DIN rail
- ✓ Clip on and lock the desired power core; 2 or 4 rectifier positions or stand alone
- ✓ Clip on and fasten either the bulk feed unit or battery distribution (for 2 or 4 pos power cores)
- ✓ Clip on and fasten the load distribution (if applicable)
- ✓ Do the wiring
- ✓ In marine applications, clip on the Marine Filter Unit and connect the AC feed through it.
- ✓ Plug in the battery and load breakers
- ✓ Plug in the rectifier modules and controller
- ✓ Install covers for the distributions, bulk feed and blind panel for any unused rectifier positions if applicable

...and you'll have a complete DC system.

## TECHNICAL SPECIFICATIONS

Model	Battery dist.	Bulk feed	Bulk feed LVD	Load dist.
Part number	241120.910	241120.911	241120.912	241120.920
<b>OUTPUT DATA</b>				
System voltage support	- 48 V <sub>DC</sub>	±12 - ±48 V <sub>DC</sub>	+ 12 V <sub>DC</sub>	-12 - -48 V <sub>DC</sub>
Unprotected bulk output connections	-	1 (Max 10 mm <sup>2</sup> )	1 (Max 10 mm <sup>2</sup> )	-
Protected load output connections (plug-able single pole MCB in negative)	-	-	-	4 x 2 - 15 A (Max 4 mm <sup>2</sup> )
Connection to Load dist (241120.920)	•	•	•	•
Unprotected battery output connections (shunt and LVBD in positive)	-	-	1 (Max 10 mm <sup>2</sup> )	-
Protected battery output connections (single pole MCB, shunt and LVBD in negative)	2 x max 30 A (Max 10 mm <sup>2</sup> )	-	-	-
Output Protection in rectifiers	Blocking OR-ing FET or fuse, Short circuit proof and High temperature protection			
<b>OTHER SPECIFICATIONS</b>				
Control system connection terminals	CAN (1 x RJ45)	CAN (1 x RJ45) 2 x LVD 2 x fuse fail 1 x current shunt	CAN (1 x RJ45) 1 x LVD 2x fuse fail 1 x earth fault	-
Extending width	66 mm [2.6"]	26 mm [1.0"]	66 mm [2.6"]	73 mm [2.9"]
Weight	270 g [0.6 lbs]	110g [0.24 lbs]	250 g [0.6 lbs]	165 g [0.3 lbs]

