

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_{DC}, 24 V_{DC}, 30 V_{DC} & 48 V_{DC} OUTPUT

Doc 241120.90x.DS3 - v5

APPLICATIONS

TELECOM - MOBILE / WIRELESS

- RADIO BASE STATIONS/ CELL SITES
- LTE / 4G / WIMAX
- MICROWAVE

TELECOM - FIXED

- FIBER OPTICS
- MICROWAVE
- CABLE
- BROADBAND

POWER UTILITIES

- CONTROL & PROTECTION
- PLC AND ALARM SYSTEMS
- SIGNALING

RAILWAY & METRO

- CONTROL & PROTECTION
- SIGNALING SYSTEMS
- SAFETY SYSTEM



MICROPACK RECTIFIERS



COMPACK 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 VAC/DC INPUT
- 12, 24-30, 48 V_{DC} 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

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RECTIFIER POWER CORES





2-positions (241120.901)

Standalone (241120.900)

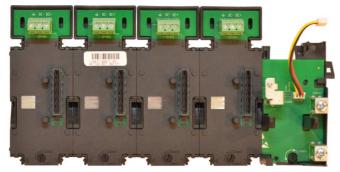


4-positions (241120.902)

RECTIFIER POWER CORES



Standalone (241120.905)



4-positions (241120.907)

RECTIFIER POWER CORES

breakers

Load distribution

with sockets for 4

(241120.920)

Battery distribution with shunt, LVBD and sockets for 2

breakers

(241120.910 for 48 V_{DC} only) (241120.915 for 24 - 48 V_{DC})





Plug-in battery and load breaker



RECTIFIER POWER CORES

Bulk feed output (241120.911)



Battery bulk feed with shunt and contactor in positive leg. (241120.912 - 12 V_{DC} only) (241120.914 - 24 - 48 V_{DC})



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MICROPACK SYSTEM BUILDING BLOCKS - COMPABILITY MATRIX									
Part number	Description	Outp 12V	out Vo 24V				ounding FLOAT	Supp Rectifier	
241120.900	Powercore -1	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	×
241120.901	Powercore -2	✓	✓	✓	✓	✓	\checkmark	✓	×
241120.902	Powercore -4	✓	✓	✓	✓	✓	✓	✓	×
241120.905	Powercore -1	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	×	✓
241120.907	Powercore -4	✓	✓	✓	✓	✓	\checkmark	×	✓
241120.910	Batt dist.	×	×	\checkmark	\checkmark	×	√ 1)	\checkmark	√ 3)
241120.911	Bulk feed	✓	✓	✓	✓	✓	✓	✓	√ 4)
241120.912	Bulk feed LVD 12	\checkmark	×	×	×	✓	\checkmark	\checkmark	✓
241120.914	Bulk feed LVD 24/48	×	\checkmark	\checkmark	×	✓	✓	\checkmark	✓
241120.915	Batt dist. 24/48	×	✓	✓	✓	×	√ 1)	✓	✓
241120.920	Load dist.	✓	✓	✓	✓	×	√ 1)	✓	✓
251875	Dummy Module	✓	✓	✓	✓	✓	✓	✓	√ 5)
241120.930	Marine filter ²⁾	✓	✓	✓	✓	✓	✓	✓	✓
1) Grounding of position 2) For AC input	ve recommended		revision revision			5) Moi	unted up side	down	

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 applicableS

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

RECTIFIER POWER CORES

Model	Battery dist.	Bulk feed_	Bulk feed LVD	Load dist.
Part number	241120.910 / .915	241120.911	241120.912 / .914	241120.920
OUTPUT DATA				
System voltage support	-48 / -2448 V _{DC}	±12 - ±48 V _{DC}	+12 / +24 - +48 V _{DC}	-1248 V _{DC}
Unprotected bulk output connections	- -	1 (Max 10 mm ²)	1 (Max 10 mm²)	-
Protected load output connections (plug-able single pole MCB in negative)	-	-	-	4 x 2 - 15 A (Max 4 mm²)
Connection to Load dist (241120.920) Unprotected battery output connections (shunt and LVBD in positive)	• -	-	1 (Max 10 mm²)	• -
Protected battery output connections (single pole MCB, shunt and LVBD in negative)	$2 \times max 30 A$ (Max 10 mm^2)	-	-	-
Output Protection in rectifiers/converters	Blocking OR-ing FET or fus	se, Short circuit proof and	d High temperature prote	ction
OTHER SPECIFICATIONS				
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]

MICROPACK SYSTEM



FOR 12 V_{DC} , 24 V_{DC} , 30 V_{DC} & 48 V_{DC} OUTPUT

Model	Stand alone	2-pos	4-pos	DC/DC 1-pos	DC/DC 4-pos				
Part number	241120.900	241120.901	241120.902	241120.905	241120.907				
INPUT DATA									
Maximum voltage		300 V _{AC/DC}		72 V	'DC				
Maximum current	2 A	7 A	7 A	15 A	15 A				
Connection, screw terminals max 2.5mm ²		1 x L/N/PE		1 x DC+/DC-/PE	4 x DC+/DC-/PE				
Protection	Individual fuse in Micropack power modules								
Coding (prevents mixing of output voltages)	Yes,	and only rectifiers	Yes, and only DC/DCs fit						
OUTPUT DATA									
Voltage	12V _{DC} , 24 V _{DC} , 30 V	V _{DC} & 48 V _{DC}							
Maximum current	10 A	20 A	40 A	12 A	40 A				
Connection, screw terminals max 2.5mm ²	$2 \times V_{OUT+} / V_{OUT-}$	-	-	$2 \times V_{OUT+} / V_{OUT-}$	-				
Connection to 241120.91x bases	-	•	•	-	•				
Output Protection in rectifiers	Blocking OR-ing FE	T or fuse, Short ci	rcuit proof and Hig	h temperature protec	ction				
OTHER SPECIFICATIONS									
Module alarm relay output, max 1mm ²	•	-	-	•	-				
CAN connections	- / •(3 pin) ²⁾	• (2 wire)	• (2 wire)	- / •(3 pin) ²⁾	• (3 wire)				
Width	44 mm [1.7"]	142 mm [5.6"]	231 mm [6.1"]	44 mm [1.7"]	231 mm [6.1"]				
Weight	70 g [0.2 lbs]	160g [0.4 lbs]	250 g [0.6 lbs]	78 g [0.2 lbs]	292 g [0.6 lbs]				
Model	odel Micropack Marine Filter Unit								
Part number	241120.930								
OTHER SPECIFICATIONS									
Mains rating / connection	85 - 300 V _{AC/DC} , 0	- 10 A / L- N (DC-	+/-) + PE : 2.5mm ²	screw terminals					
Dimensions / weight	35 x 99 x 114.5 m	m [1.4 x 4.1 x 4.7"]] / 328 g [0.72 lb	s]					
All models									
OTHER SPECIFICATIONS									
Cover material	Plastic V0 rated a	nd aluminium			_				
Temperature	Operating: -40 to +65°C (-40 to +149°F), storage: -40 to +85°C (-40 to +185°F)								
Mounting	35mm DIN rail								
Dimensions (H x D)	89 mm (2U) ¹⁾ x ma	89 mm (2U) ¹⁾ x max. 150mm (incl. DIN rail) mm [3.5 x 5.9 "]							
DESIGN STANDARDS									
Electrical safety			3 rd edition, CSA 22	.2					
	ETSI EN 300 386 \ EN 61000-6-1 / -2	/ -3 / -4 / -5							
EMC	FCC Part 15 Subpa	art 109							
Mains Harmonics	EN 61000-3-2 ETSI EN 300 019: 3 ETSI EN 300 132-2		(Class 2.3) & 2-3 (Class 3.2)					
Environment		S) & 2002/96/EC ((WEEE)						
Marine compliance (EMC class B with AC filter) 1) Allow for minimum 1U below and above to ensure airflow 2) From HW revision 2; end-resistor p/n: 281785, standalone to st		·	, High Speed & Ligh	nt Craft and DnV Offsl	nore Standards				

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Specifications are subject to change without notice

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