

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 VDC, 24 VDC, 30 VDC & 48 VDC Output

Doc 241120.90x.DS3 - v9

APPLICATIONS

TELECOM - MOBILE/WIRELESS

- Radio Base stations/ Cell Sites
- LTE / 4G / WiMAX
- Microwave

TELECOM - FIXED

- Fiber Optics
- Microwave
- Cable
- Broadband

RAILWAY & METRO

- Control and protection
- Signaling systems
- Safety systems

POWER UTILITIES

- Control and protection
- PLC and alarm systems
- Signaling



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 VDC 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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2-positions (241120.901)

Standalone (241120.900)



DCDC POWER CORE

SYSTEM BASES - NEGATIVE DISTRIBUTION

Battery distribution with shunt, LVBD and sockets for 2 breakers

Load distribution with sockets for 4 breakers (241120.920)

(241120.915 for 24 - 48 VDC)





Plug-in battery and load breaker



SYSTEM BASES - FLOATING / POSITIVE DIST.

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})





Standalone (241120.905)

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| | Part | | Out | put Vol | tage | Outp | ut grou | nding | Supp | orts |
|-------------------------------------|--|---|--------------|--------------|--------------|--------------|--------------|-----------------|--------------|------|
| | number | Description | 12V | 24V | 48V | DC+ | DC- | Float | Rectifier | DC/D |
| | 241120.900 | Powercore -1 | ✓ | \checkmark | ✓ | ✓ | ✓ | \checkmark | \checkmark | × |
| | 241120.901 | Powercore -2 | ✓ | ✓ | ✓ | ✓ | ✓ | \checkmark | ✓ | × |
| | 241120.902 | Powercore -4 | ✓ | \checkmark | ✓ | ✓ | ✓ | \checkmark | ✓ | × |
| | 241120.905 | Powercore -1 | ✓ | ✓ | ✓ | ✓ | ✓ | \checkmark | × | ✓ |
| | 241120.911 | Bulk feed | ✓ | \checkmark | ✓ | ✓ | ✓ | \checkmark | ✓ | × |
| | 241120.912 | Bulk feed LVD 12 | ✓ | × | × | × | ✓ | \checkmark | \checkmark | × |
| | 241120.914 | Bulk feed LVD 24/48 | × | ✓ | ✓ | × | ✓ | \checkmark | ✓ | × |
| | 241120.915 | Batt dist. 24/48 | × | \checkmark | \checkmark | ✓ | × | ✓ ¹⁾ | \checkmark | × |
| | 241120.920 | Load dist. | ✓ | \checkmark | \checkmark | ✓ | × | ✓ ¹⁾ | ✓ | × |
| | 251875 | Dummy Module | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | ✓ |
| | 241120.930 | Marine filter ²⁾ | ✓ | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | ✓ | × |
| DIN Rail Marine filter (241120.930) | Grounding of positive For AC input, support | itive recommended ports also a few Flatpack2 and F | atpack S | modules se | ee module | DS | | | | |

| Α | 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

EASY INSTALLATION - ON-SITE CONFIGURATION

- 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.

| Model | Battery dist. | Bulk feed | Bulk feed LVD | Load dist. |
|--|------------------------------|---|--|-----------------------------|
| Part number | 241120.915 | 241120.911 | 241120.912 / .914 | 241120.920 |
| OUTPUT DATA | | | | |
| System voltage support | -2448 V _{DC} | $\pm 12 - \pm 48 V_{DC}$ | +12 / +24 - +48 V _{DC} | -1248 V _{DC} |
| Unprotected bulk output connections | - | 1 (Max 10 mm²) | 1 (Max 10 mm ²) | - |
| 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 x max 30 A (Max 10 mm²) | - | - | - |
| Output Protection in rectifiers/converters | Blocking OR-i | ng FET or fuse, Short circ | uit proof and High temperatu | re protection |
| 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] |

Specifications are subject to change without notice

Micropack System

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| Model | Stand alone | 2-pos | 4-pos | DC/DC 1-pos | | | |
|--|--|--|---|---|--|--|--|
| Part number | 241120.900 | 241120.901 | 241120.902 | 241120.905 | | | |
| INPUT DATA | | | | | | | |
| Maximum voltage | | 300 V _{AC/DC} | | 72 V _{DC} | | | |
| Maximum current | 2 A | 7 A | 7 A | 15 A | | | |
| Connection, screw terminals max 2.5mm ² | | 1 x L/N/PE | | 1 x DC+/DC-/PE | | | |
| Protection | | Individual fuse in N | licropack power mod | ules | | | |
| Coding (prevents mixing of output voltages) | Yes | , and only rectifiers | | Y, only DC/DC fit | | | |
| OUTPUT DATA | | , , | | , , | | | |
| Voltage | | 12Vdc, 24 Vdc, 30 Vdc & 48 Vdc | | | | | |
| Maximum current | 10 A | 20 A | 40 A | 12 A | | | |
| Connection, screw terminals max 2.5mm ² | 2 x V _{OUT+} / V _{OUT-} | - | - | 2 x V _{OUT+} / V _{OUT-} | | | |
| Connection to 241120.91x bases | - | • | • | - | | | |
| Output Protection in rectifiers | Blocking OR-ing I | Blocking OR-ing FET or fuse, Short circuit proof and High temperature protection | | | | | |
| OTHER SPECIFICATIONS | | , | , | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| Module alarm relay output, max 1mm ² | • | - | - | • | | | |
| CAN connections | - / •(3 pin) ¹⁾ | • (2 wire) | • (2 wire) | - / •(3 pin) ¹⁾ | | | |
| Width | 44 mm [1.7"] | 142 mm [5.6"] | 231 mm [6.1"] | 44 mm [1.7"] | | | |
| Weight | 70 g [0.2 lbs] | 160g [0.4 lbs] | 250 g [0.6 lbs] | 78 g [0.2 lbs] | | | |
| Model | _ | | Marina Filtar | _ | | | |
| Model Part number | | | Marine Filter | | | | |
| | | 24 | 1120.930 | | | | |
| OTHER SPECIFICATIONS Mains rating / connection | 85 - 300 Vacuo | ο - 125 Δ / Ι-Ι | N (DC+/-) + PE : 2.5n | 2 screw terminals | | | |
| Dimensions / weight | | | x 4.1 x 4.7"] / 328 g | | | | |
| <u> </u> | | 55 x 1 14.5 min [1.4 | × 4.1 × 4.7] 7 526 § | g [0.7 2 103] | | | |
| All models | | _ | _ | _ | | | |
| OTHER SPECIFICATIONS | | | | | | | |
| Cover material | | Plastic V0 rated and 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) ²⁾ x max. 150mm (incl. DIN rail) mm [3.5 x 5.9 "] | | | | | | |
| DESIGN STANDARDS | | | | | | | |
| Electrical safety | EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013, IEC 60950-1:2013 UL 60950-1:2014 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| EMC | | 6-1:2019 / -2:2019 / | / -3:2007/A1:2011/AC 9: 2010. ETSI EN 30 | | | | |
| EMC | | 6-1:2019 / -2:2019 / | / -3:2007/A1:2011/AC 9: 2010, ETSI EN 30 | | | | |
| EMC Mains Harmonics | | 6-1:2019 / -2:2019 / part 15B section 10 | | | | | |
| - | FCC CFR47 | 6-1:2019 / -2:2019 / part 15B section 10 EN 61 SI EN 300 019: 2-1 | 9: 2010, ETSI EN 30 000-3-2:2019 (Class 1.2) & 2-2 (Cl | 0 386 v2.1.1: 2016 ass 2.3) | | | |
| - | FCC CFR47 ET | 6-1:2019 / -2:2019 / part 15B section 10 EN 61 SI EN 300 019: 2-1 EU 2015/863 (RoH | 9: 2010, ETSI EN 30 000-3-2:2019 (Class 1.2) & 2-2 (Cl S) & 2012/19/EU (W | 0 386 v2.1.1: 2016 ass 2.3) EEE) | | | |
| Mains Harmonics | FCC CFR47 ET Normal operating c | 6-1:2019 / -2:2019 / part 15B section 10 EN 61 SI EN 300 019: 2-1 EU 2015/863 (RoH onditions as per IEC | 9: 2010, ETSI EN 30 000-3-2:2019 (Class 1.2) & 2-2 (Cl S) & 2012/19/EU (W | 0 386 v2.1.1: 2016 ass 2.3) EEE) use 4.2. Other operatii | | | |
| Mains Harmonics | FCC CFR47 ET Normal operating c | 6-1:2019 / -2:2019 / part 15B section 10 EN 61 SI EN 300 019: 2-1 EU 2015/863 (RoH onditions as per IEC as per IEC 62040-5 | 9: 2010, ETSI EN 30 000-3-2:2019 (Class 1.2) & 2-2 (Cl S) & 2012/19/EU (W C 62040-5-3:2016 cla -3:2016 clause 4.3, r | 0 386 v2.1.1: 2016 ass 2.3) EEE) use 4.2. Other operatii | | | |
| Mains Harmonics Environment | FCC CFR47 ET Normal operating c | 6-1:2019 / -2:2019 / part 15B section 10 EN 61 SI EN 300 019: 2-1 EU 2015/863 (RoH onditions as per IEC as per IEC 62040-5 | 9: 2010, ETSI EN 30 000-3-2:2019 (Class 1.2) & 2-2 (Cl S) & 2012/19/EU (W C 62040-5-3:2016 cla | 0 386 v2.1.1: 2016 ass 2.3) EEE) use 4.2. Other operatin | | | |

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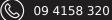
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