

Rectifier ML series

Switched-mode rectifier 48 VDC



Rectifier ML2000



DC power system R-Force ML4000

Highlights

- | Hot swap technology
- | High efficiency
- | High power density coefficient
- | Front to back air flow, no scalability limitation
- | Wide temperature range of operation
- | Fail-safe modular structure combined with fault tolerant solutions

INDEPENDENT. INNOVATIVE. NICE.

Rectifier ML – rectifier and battery charger for stand-alone use or for working in parallel as a part of the R-Force DC power system.

Performance

R-Force series presents a high-tech modular DC power supply solution for any telecommunications application. Ultra high reliability for wireless, fiber and fixed line networks.

Scalability

R-Force contains of a 1U distribution unit and 1U to 4U of power subrack, which can house up to 2 ML rectifiers each. Total capacity of 5U system can reach up to 320 Amps @ 48 VDC.

Reliability

The R-Force DC power system is suitable for both indoor and outdoor application. Tested functionality under harshest conditions. Operating temperature range: -30°C ... +80°C.

Simplicity

Easily done. Setting up and controlling through 3 buttons beside the LCD display.

Innovation

We developed ERS – Electronic Rectifier Switch for fast and safe rectifier module exchange, without any screw-drivers. The real time-saving and cost-reducing plug & play connection system.

Monitoring and control

Communication via RS232, SNMP, Ethernet or GSM.

Technical data

Rectifier ML series

Rectifier module	ML800	ML1000	ML1200	ML1500	ML1800	ML2000
Input (AC)						
Voltage, nominal	230 V					
Voltage, operating range	140 V ... 276 V					
Frequency	45 Hz ... 66 Hz					
Power factor	> 0.99					
Output (DC)						
Voltage	53.5 V (adj. range 43 V ... 58 V)					
Power, nominal	800 W	1000 W	1200 W	1500 W	1800 W	2000 W
Power, maximum	880 W	1100 W	1320 W	1650 W	1980 W	2200 W
Current, maximum, @ 53.5 V	16.4 A	20.6 A	24.7 A	30.8 A	37 A	41.1 A
Current sharing between modules	± 5% from max. current					
Static voltage regulation (from 10% to 100% load)	± 0.5%					
Dynamic voltage regulation (from 10% to 90% / 90% to 10% load)	± 5%					
Response time	< 2 ms					
Other specifications						
Main functions and features	Recharge and maintain of all types of batteries Battery test and asymmetry control Voltage temperature compensation Fan speed regulation (current and temperature) Digital, light and sound signalling					
Protections	Protection against over-voltage and disturbances at the input Protection against overload and short circuit at the output Protection against deep battery discharge Protection against high temperature					
Dimensions (WxHxD) mm	(220x42x245)					
Mounting	Horizontal, 2 rectifiers (1U) across a 19" or ETSI rack					
Operating conditions						
Ambient temperature	-30°C ... +80°C (power de-rating at 60°C)					
Humidity	Operating: 0% to 95% RH non-condensing Storage: 0% to 99% RH non-condensing					
Operating altitude	≤ 3000 m a.s.l.					