

# 15U to 2.0M Medium System

3.0-54.0K WATTS - 48 VDC

## FEATURES

- World leading power density
- Fully featured telecom grade rectifiers
- Fully featured monitoring & remote communications
- Easy access distribution terminations
- High efficiency, unity power factor rectifiers
- Short cabinet allows for mounting on battery strings
- Flexible mounting options enable floor space savings
- Upgrade existing systems to higher power
- High reliability, less cost of maintenance
- Full remote monitoring available, less site visits
- Lower lifetime operating costs

## PRODUCT INFORMATION

DC power systems are the ideal solutions for powering telecommunications and data networks requiring 24V or 48V DC.

The range offers solutions for applications from small standalone systems for applications like access nodes to medium sized systems for radio base stations for mobile networks to larger systems for central office power applications.

Systems are configured using state of the art 3kW high frequency switchmode rectifier modules, Intelligent network capable controllers, AC & DC distribution modules, and cabinets, and can be customized and configured to meet individual customer requirements.

## SPECIFICATIONS

INPUT	
AC Input	312-500V AC (full power output)
Maximum input current	54A/ph (ph-N)
Frequency range	45-66Hz
Power factor	>0.99 (full power)
Style	3-phase neutral and earth
Surge Protection	MOV; 3x Ph-N, 1x N-Earth. (spark gap) In(8/20µS): 20kA Imax(8/20µS): 40kA
DC OUTPUT	
Nominal system output voltage	-48V
Maximum power output	54000W
Polarity	Positive earth. (standard)
Load & battery distribution	Up to 56x positions for 18mm wide DIN rail mount MCB May be arranged in many configurations of loads and batteries MCB Fuse options also available



Low voltage disconnect options	Single battery LVD fitted as standard. Up to 2x LVDs with independent control May be fitted on battery or load side. (option)
LVD current rating	400A to 1200A, cabinet type dependant
Supervisory & monitoring module	SM31 (standard) SM32 TCP/IP enabled for web based viewing & configuration (option)
Supervisory module mounting	Door mounted for improved system terminal access.
Battery condition monitoring	Optional full battery monobloc monitoring. (bloc voltage & string current)
Alarms (voltage free contacts)	1x fixed alarm – “Monitor failed” Up to 9x user configurable, 2 of which are pre-programmed: - Non-urgent summary alarm - Urgent summary alarm 7x unassigned, may be assigned to any one of 37 alarm events, (e.g. rectifier fail, mains fail etc.) on an “AND” or “OR” basis contacts rated for 1A at 60V DC

ENVIRONMENT	
Temperature	-10°C to +70°C (max. power de-rated above 50°C)
Humidity	5-95% RH (non-condensing)
Altitude	<2500m, De-rate maximum ambient temperature by 4°C per 1000m above sea level

MECHANICAL	
Dimensions	15U cabinet : 600mm 19” standard mounting rails, 800mm providing 15U of rack space (W,D,H) 1.6M cabinet : 600mm, 600mm, 1600mm providing 33U of rack space 2.0M cabinet : 600mm 19” standard mounting rails, 2000mm providing 40U of rack space
Weight	75kg to 180kg (approx) cabinet type dependant

COMPLIANCES	
Safety	EN60950

**NOTE:** System model number, monitor and DC distribution options consult Powerbox sales

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**15U MEDIUM SYSTEM 48V DC 27.0KW MAXIMUM**



**1.6M MEDIUM SYSTEM 48V DC 27.0KW MAXIMUM**



**2.0M MEDIUM SYSTEM 48V DC 54.0KW MAXIMUM**



BATTERY CHARGER & SYSTEMS