Compact Power DC Power

250-12.5K WATTS TELECOMMUNICATIONS

FEATURES

- **High power density, only 2RU height.**
- **Power levels range from 250W to 12.5kW.**
- **High efficiency with 92% efficiency.**
- **High reliabilities, >1 million hrs MTBF.**
- **Hot pluggable with network interface options**
- **Operating temperature between –40°C to +75°C.**

Specifications

INPUT

Voltage	90-264Vac (rectifier up to 1250W) 180-264Vac (rectifier > 1250W)
Power factor	>.98 typical @ 230Vac, full load.
Frequency	47-63Hz.
Inrush current	30A peak per rectifier. (Excludes Xcaps in the EMC input filter).
THD	Line harmonics meet EN61000-3-2

OUTPUT

Voltage	See table.
Current	See table.
Regulation	±1% (Total regulation line, load, ageing & temperature).
Output noise	20mVrms (10kHz to 20MHz, -20°C to +70°C).
Output rise time	100/400ms (min/max, 10%-90% of final output level).
Dynamic response	3% max.
Turn on delay	3.5sec max
Adjustable overvoltage protection	Yes, remote configuration. (via I²C bus)
Reverse voltage protection	Yes.
Active load sharing	Yes.
Soft start	Yes.
Start-up time	1s.
Hold-up time	2-10ms
Efficiency	92% for 48Vdc rectifier. 90% for 12/24Vdc rectifier typ.

ENVIRONMENTAL

Operating temperature	-40°C to +75°C, (full load, except V2500A operate full power from -40°C to +65°C)
Storage temperature	-40°C to 85°C.
Humidity	5-95% RH, non-condensing.
Altitude	-200 to 8000 Ft (operation above 8000', maximum temperature is derated 2°C per 1000' for temperature above 65°C).
Cooling	Forced air cooling.

STANDARDS

TELCORDIA	NEBS level 3 compliant.
UL	Canada/US UL60950/UL 1801
VDE	EN60950
EMI/EMC	CISPR class B conducted and radiated 10V/M radiated susceptibility.
CE	CE mark meets 73/23/EEC and 93/68/EEC directives.
C-tick	AS/NZS CISPR11: 2004, class B

Control AND Communications

CONTROLLER FEATURES

- 16 Character front panel display.
- Battery float control with temperature compensation.
- Battery boost / equalize control.
- Three external and one internal temperature probes.
- Battery recharge and system current limit.
- Six programmable form-C relays.
- Up to four external, programmable alarm inputs.

OTHER OPTIONS

- 10/100 LAN with HTTP, SNMP, Telnet (BC1000).
- MODEM interface with VT100 (BC1001).

BC Series System Controller Models.

MODEL	DESCRIPTION
BC1000-A01-10-VV	Controller with Ethernet
BC1001-A01-10-VV	Controller with Modem
BC500-A01-10-VV	Basic Controller

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SHELF CONFIGRATION	RACK WIDTH	MAX. # OF RECTIFIER	MAX SHELF CURRENT 12/24V	MAX SHELF CURRENT 48V	DISTRIBUTIONOPTIONS
	482.6mm(19”)	4	240	200	Bulk outputs only
	482.6mm(19”)	3	180	150	Circuit Breaker, Fuses, Bulk Landings, LVD and Ringer Options
	482.6mm(19”)	2	120	100	Circuit Breaker, Fuses, Bulk Landings, LVD Option
	584.2mm(23”)	5	300	250	Bulk outputs only LVD Option
	584.2mm(23”)	4	240	200	Circuit Breaker, Fuses, Bulk Landings, LVD and Ringer Options
	584.2mm(23”)	3	180	150	Circuit Breaker, Fuses, Bulk Landings, LVD Option

V Series Rectifier Basic Models

MODEL	VOLTAGE	CURRENT	AC INPUT	AIR FLOW	TEMPERATURE
V0250A	48V	5A	90-264Vac	Vertical	-40°C to 75°C
V0500A	48V	10A	90-264Vac	Vertical	-40°C to 75°C
V1000A	48V	20A	90-264Vac	Vertical	-40°C to 75°C
V1250A	48V	25A	90-264Vac	Vertical	-40°C to 75°C
V1500A	48V	30A	180-264Vac	Vertical	-40°C to 75°C
V2000A	48V	40A	180-264Vac	Vertical	-40°C to 75°C
V2500A	48V	50A	180-264Vac	Vertical	-40°C to 65°C
V0500B	24V	20A	90-264Vac	Vertical	-40°C to 75°C
V1000B	24V	40A	90-264Vac	Vertical	-40°C to 75°C
V1500B	24V	60A	180-264Vac	Vertical	-40°C to 75°C
V0500C	12V	40	90-264Vac	Vertical	-40°C to 75°C
V0750C	12V	60	90-264Vac	Vertical	-40°C to 75°C
V2000D	30-80V	10-40A	90-264Vac	Vertical	-40°C to 50°C
V0500F	82V	7A	90-264Vac	Vertical	-40°C to 75°C