

# Incredible Functionality, Flexibility, and Scalability in a 2 RU, 1.0 to 6.0 Kw DC Power System

- 19", 2U rackmount shelf with integrated power distribution
- 90-250 VAC input, Power Factor Corrected
- 3 power bays accept 1000 or 2000 watt modular rectifiers
- Ill amp, 6000 watt total max. output capacity, (74 Amp, 4000 Watt, N+1) @ 48 VDC
- Output temperature compensated for precise battery charging
- I6 DC circuit breaker distribution capacity, with tripped breaker alarm
- Master disconnect breakers for two battery banks, with tripped breaker alarm
- Controller with digital display of system parameters with TCP/IP interface and SNMP monitoring/logging
- Alarm contacts monitor major system functions
- Low voltage disconnect built in
- Easily configures to meet site power requirements

Complete system design and integration by Newmar to your application parameters: Rectifier configuration, installation of distribution circuit breakers, and configuration of alarms and monitors. Assembly in a relay rack with batteries and wiring also available. Let us submit a proposal on your next project.

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Watts Per Rectifier	# of Rectifiers Installed			
	1	2	3	
2000	37A (2000W)	74A (4000W)	111A (6000W)	
1000	18A (1000W)	36A (2000W)	54A (3000W)	

## System Power Configurations @ 48V\*

## System Power Configurations @ 24V\*

<b>2000</b>   3/A (2000W)   /4A (4000W)   111A (6000W)		2000	37A (2000W)	74A (4000W)	111A (6000W)
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\* @ 230 VAC input, 2Kw: derate 41% @ 110 VAC input; 1Kw: derate 33% @ 110 VAC input



Newport Beach, CA USA

www.newmartelecom.com = 800-854-3906

Powering the Network

# Specifications: Centurion II Preliminary Product Information

### AC Input

Nominal: Voltage Range: Frequency Range: Power Factor: Efficiency:	230V 90-300V (derate @ 115 input) 45-65 Hz >0.99 >94% (from 30-95% output power)		
DC Output			
<u>Voltage</u> Output Ratings: Nominal Voltage: Rated Voltage:	<u>-48 volt</u> Constant power output from 48V to 58V 48V 58V	<u>+24 volt</u> Constant power output from 24V to 29V 24V 29V	
Power:			
Rated maximum System Output Power: Polarity: Individual Rectifier Power: (24 and 48 volt) Amperage @ 230 vac in Amperage @ 115 vac in	6000W @ -48V, 3000 watts @ 24 volts Positive earth. 48 volt, negative earth 24 volt <u>1000 watt</u> 18 12	<u>2000 watt</u> 37 21	
DC Distribution:			
Load:	16 breaker positon capacity, available amperages (specify) 6A, 10A, 20A, 30 amp, with tripped breaker alarm		
Breaker Fail Detection:	2 x 100A ballery circuit breakers. Electronic fail detection on both load and battery. Breakers		

125A battery LVD installed standard, with disconnect alarm

#### Monitoring & Control:

Low Voltage Battery Disconnect:

Monitors all power system conditions including DC voltage, rectifier current, battery current, battery temperature, and distribution failure. Visual notification of alarm conditions by LED's and a 4 line x 16 character alpha numeric display mounted on the front panel, with remote notification being enabled by relay contacts, RS232 or TCP/IP (using SNMP). It has a built-in web based configurator allowing setup of system parameters using a web browser and utilizes a USB communications port which allows for local monitoring of system operations as well as easy downloading of configuration files for multiple site installations.

#### <u>General System</u>

## Protection:

Current Limit:	Adjustable to 50-100% of maximum rated current.	Shelf: Dimensions / Weight:	19" W x 3.5" H x 15.35" D / 19.84 Lbs. (excluding rectifier modules)
Over Temperature:	Automatic current reduction, backup	Rectifers: Dimensions / Weight:	4.25" W x 2.75" W x 11.1" D / 3.15 Lbs
Delerity Desservel	Shuldown projection.	Cooling:	Forced cooled.
Over Voltage:	Adjustable limit.	<b>Environmental</b>	
Input Voltage:	Auto shutdown, auto restart when correct voltage restored.		
Input Inrush:	<2x maximum input current.		
Input Fuses:	In phase and neutral.		

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#### Technical Characteristics:

Noise: Voice band 100Hz-5KHz: Wide band 5kHz-1MHz: Peak to Peak 0-20MHz: Isolation: Input to Chassis: Output to Chassis: Regulation:

<1mV rms psophometric <5mV rms unweighted <100mV peak to peak Input to Output: 4000V DC. 3500V DC (VDR to chassis removed) 2100V DC Line = ±0.1%, Load = ±0.5% (no load to full load)

Ripple <100Hz: <1mV rms unweighted

<u>Compliances</u>

Mechanical

Safety: Electrostatic Discharge: Radiated Radio Freq: AC Harmonics: AC Flicker & Fluctuation: Other: EN60950 CISPR24 CISPR22 EN61000-3-2 EN61000-3-3 CE & RoHS complicant

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