Bungalow & Remote Site Power System



The Bungalow and Remote Site Power System (RRSPS) series provides a DC power solution that integrates quickly with batteries, loads, and transmitters. Available in 12, 24 or 48 volt configurations, the compact 300 watt assembly contains: power supply with temperature compensated battery charger; and programmable alarm contacts, all in a rugged, vibration hardened compact case. Versatile installation options include wall mount, 19" rackmount, and DIN-Rail. Extreme operating temperature rating with convection cooling make the unit ideal for rail wayside bungalows, remote site shelters, pole mount enclosure applications, as well as private network base stations and microwave sites.

Features

- Well regulated noise free 300 watt output maintains batteries with no interference to sensitive electronic loads
- Charger output regulated by temperature compensation sensor with high voltage limit under extreme low temperatures (meets AREMA standards)
- Low voltage disconnect option protects batteries from extreme discharge (feature activated by wiring configuration)
- Output current indicator LEDs
- Wide temperature operating range (-40 to +70° C) with convection cooling no fans to service, meets AREMA standards
- High input/output isolation ratings meet AREMA standards
- Alarm contacts interface with remote monitor systems
- Active load sharing allows wiring in N+1 configuration for redundancy and/or in parallel for higher current capacity
- Hardened for high vibration environments in wayside applications
- Optional Rack and DIN-Rail mounting bracket

Models	Input All Models	Output Voltage	Output Amps	Size	Weight
RRSPS 12-20	100 075 170 0	12	20	12 25" W x 5 75" H x 2 45" D/	34 Lbs /1 5 Kg
RRSPS 24-10	100 - 275 VAC, 50 - 60 Hz	24	10	(311mm x 146mm x 62mm)	0.11100.71.0119
RRSPS 48-6		48	6		

Specs subject to change.





www.newmartelecom.com = 800-854-3906

Bungalow & Remote Site Power System

100-275V AC (full power output), 85-100V AC (reduced power output)

Specifications: Models RRSPS 12-20, RRSPS 24-10 & RRSPS 48-6 AC Input Nominal: 110/220V, 50/60Hz

>0.99 (full load)/87%

45-66Hz

AC Input Nominal: Voltage Range: Frequency Range: Power Factor/Efficiency: Input Fuses: Maximum Input Current: Protection: Input Voltage: Input Rush:

DC Output

Rated Voltage: Voltage Range: Maximum Current: Redundancy/Scalability: Temperature Compensation:

Regulation Line/Load: Hold-up Time: Start-up Time:

Protection

Current Limit: Over Temp: Polarity Reversal: Over Voltage: Noise: (under nominal conditions) Ripple: Voice Band 100Hz to 5KH: Wide Band 5KHz to 1 MHz Peak to Peak 0 to 20MHz

Isolation: Meets AREMA Standards Input to Output: Input to Chassis: Output to Chassis:

Environmental

Cooling: Range: Humidity: Altitude:

Mechanical

Case: Mounting: Dimensions: Weight: Connections

AC: Output to Load & Batteries Temperature Sensor: Monitor Connection:

Standard Features

Output Current Indicator: Alarm and Indicator Controls:

	Fuses in phase & neutral 4A @ 110 VAC, 2A @ 220 VAC					
	Automatic shutdown, restarts automatically when correct voltage restored. <2x maximum input current.					
	RRSPS 12-20 RRSPS 24-10 RRSPS 48-6 13.6V 27.2V 54V 11-15V 22-30V 44-60V 23A 10A 6A Ok to wire in parallel, active load sharing Output voltage slope adjustable 0.1 to 0.2%/°C; 3' cable with battery lug sensor provided Safeguards: Reverts to default voltage if sensor wire becomes short or open. High voltage limit under extreme low temperature conditions ±0.1%/±0.5% (no load to full load) >15ms for 20% output voltage drop. Walk-in delay 2 seconds (depends on AC input voltage)					
	Adjustable to 50-100% of maximum rated current Automatic current turndown, backup shutdown protection Output fuse with crowbar diode Adjustable limit					
CHz: IHz: Hz:	<100Hz: <5mV rms <1mV rms psophometric <5mV rms <50mV p-p					
5	4,200V DC 3,500V DC (VDR to chassis removed.) 2,100V DC					
	Convection cooled -40° to +70°C operating range; -10° to +60° @ 100% load rating. derate to 20% load below -10° C and above +60° C 5-95% RH (non-condensing) <7500m de-rate maximum ambient temperature by +4° C per 3000m above sea level					
	Painted Aluminum Wall or enclosure back plane, vertical orientation 12.25" W x 6.40" H x 2.45" D; (311mm x 163mm x 62mm) 3.4 lbs.;1.5kg					
eries:	IEC 320 universal connection, 8 foot power cord provided with Pigtail end 4 way lumberg macromodule, screw style 2 way lumberg macromodule, (pre-installed on 6 foot cable) RJ45					

Ten segment red LED "dot" display Positive V out, Load share signal (in/out), External shutdown, Open collector 'off normal' alarm (OSVD, over temp. limit), LVD synchronisation signal (in/out) Temperature compensation input signal, Open collector rectifier fail (via 4k7 resistor), Open collector mains fail, Negative V out

	RRSPS 12-20	RRSPS 24-10	RRSPS 48-6					
Low Voltage Disconnect: Voltage Adjustment Range (Option*)	: 10-12V	19-24V	39-48V	* Activated by wiring configuration				
Internal Alarm Card: 4x N.O or N.C (selectable) relay contacts with single common for rectifier fail, off for mains fail. Relay contacts rated at 100V DC 1A. Connections via "mini comb				ngle common for rectifier fail, off normal, float low, float high. 1x VF changeover relay contact 1A. Connections via "mini combicon" connector accepts 16 AWG (1.5mm diameter) wire.				
LED Indicators:	Green - AC on. (primary converter operating) Green - Temperature probe connected and within normal limits. Red - Rectifier Yailed'. Gree Rectifier in Yloat' mode. Yellow - Rectifier in 'current' limit. Red - Rectifier 'off normal'.							
Internal Adjustments:	Float voltage, Over voltage shut down, Current limit, Temperature compensation slope, Load disconnect voltage and hysteresis (optional)							
Design Standards	EN60950, Electrostatic Discharge: CISPR24, Radiated Radio Frequency: CISPR22, AC Harmonics: EN61000-3-2, AC Flicker and Fluctuation: EN61000-3-3, CE							
Specs subject to change.								

NE Word P

