

Rackmount Switching Power Supply

Model
SEC-4825BRM
48 VDC
120 VAC



Design Features

- 19", 2U (3.5") height Rack Mount design
- Advanced Switch Mode Technology
- N+1 Redundancy: 5x5A Power Supply Modules operate in parallel under forced current share control
- Remote monitoring through Opto Isolated, Open Collector / Open Emitter output signals
- Reliable, 48V DC Uninterruptible Power Source (DC UPS) in conjunction with external 48V Lead Acid backup Battery (not supplied)

MODEL NO.		SEC-4825BRM
NO OF MODULES		- 5
AC INPUT	INPUT VOLTAGE	120 VAC Nominal (+6% / -10%), 50/60 Hz
	INPUT CURRENT	20A @ 120 VAC
	PEAK EFFICIENCY	> 83%
	POWER FACTOR	0.74 at 25A load
DC OUTPUT	OUTPUT VOLTAGE AT LOAD TERMINALS	No Load: 54.8V / 25A Load: 54.2V
	OUTPUT VOLTAGE AT BATTERY TERMINALS (WITHOUT BATTERY)	No Load: 54.8V / 25A Load: 54.2V
	OUTPUT VOLTAGE AT BATTERY TERMINALS (WITH BATTERY)	Actual battery voltage corresponding to State of Charge; 54V to 54.6V when fully charged
	OUTPUT VOLTAGE NOISE AND RIPPLE	Ripple: 200 mV Peak to Peak / Noise: 2V Peak to Peak
	CONTINUOUS OUTPUT CURRENT AT LOAD TERMINALS	25A (Without battery backup) / 23A (With battery backup)
	MAXIMUM CHARGING CURRENT AT BATTERY TERMINALS (BATTERY BACKUP)	Up to 2A (When battery is completely discharged to Standing Voltage of 42.8V)
	OUTPUT CURRENT LIMIT AT LOAD TERMINALS	<ul style="list-style-type: none"> • 30A when no backup battery is connected (External 25A Fuse F2 will blow after some time) • Surge > 30A based on Time vs Current Characteristics of 25A Fuse F2
	BATTERY CHARGING/TYPE OF CHARGING	Taper Type of Float Charging at 54V to 54.6V
	OUTPUT CURRENT LIMIT AT BATTERY TERMINALS (BATTERY BACKUP)	2A (When battery is completely discharged to Standing Voltage of 45.4V)
EXTERNAL BACKUP BATTERY	PEAK EFFICIENCY	85% ± 5%
	TYPE & VOLTAGE	Lead Acid, 48V
	CAPACITY	10Ah to 25 Ah
PROTECTIONS	SHORT CIRCUIT, OVERLOAD	External 25A Load Side Fuse F2 will blow
	OVER VOLTAGE	Regulated by PWM Controller
	OVER TEMPERATURE / FAN FAILURE ALARM	Over temperature of PSM Heat sink or fan failure activates buzzer & RED LED "Fan Failure"
	REVERSAL OF POLARITY ON BATTERY TERMINALS	External 25A Battery Side Fuse F1 will blow
COOLING	TYPE	Forced air circulation: 2 fans running all the time
BREAKER & FUSES	INTERNAL MODULE FUSE	250V, 4A
	AC INPUT BREAKER	250V, 25A
	EXTERNAL BATTERY SIDE FUSE (BY USER)	80V, 25A, Fast Acting
	EXTERNAL LOAD SIDE FUSE (BY USER)	80V, 25A, Fast Acting
REMOTE MONITORING	TYPE OF MONITORING	Opto Isolated, Open Collector/Open Emitter Signalling (Max, 35V, 50 mA): <ul style="list-style-type: none"> • ON status of 5 Power Supply Modules (PSM) • Fan failure /over temperature • AC input available • Output Voltage & Current
INPUT / OUTPUT CONNECTIONS	AC INPUT CONNECTION	Attached Power Cord: <ul style="list-style-type: none"> • 3 x 12 AWG, 5 ft. • 30A Plug, NEMA 15-30P
	DC OUTPUT CONNECTORS FOR LOAD AND BATTERY CONNECTIONS	Terminal with Tubular Hole - Diameter 5/16" and set screw (5/16", 24 TPI, 3/8" long)
	BATTERY WIRES	Minimum AWG #10
ENVIRONMENTAL	OPERATING TEMPERATURE RANGE	0°C to 40°C / 32°F to 104°F
DIMENSIONS & WEIGHT	DIMENSIONS (W x D x H)	482.6 x 407.6 x 87.7 mm / 19.00 x 16.05 x 3.45 in
	WEIGHT	11.4 kg / 25 lb

NOTE: Specifications are subject to change without notice

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