POWERSHIP

Data Sheet

Total Output Power: 460 Watts +12 Vdc Stand-by Output Wide Range Input Voltage: 90 - 264 Vac

SPECIAL FEATURES

- Active power factor correction
- EN61000-3-2 harmonic compliance
- Active AC inrush control
- 1U X 2U form factor
- +12 Vdc output
- +12 Vdc stand-by
- Hot plug operation
- N + 1 redundant
- Active current sharing
- Built-in cooling fan
- I²C communication interface bus
- PMBus compliant
- EEPROM for FRU data
- Two years warranty

SAFETY

- UL/cUL 60950 (UL Recognized)
- NEMKO 60950
- Cb Certificate and report
- CE Mark (LVD)

DS460S

460 Watts





Electrical Specifications					
Input					
Input range:	90 - 264 Vac				
Frequency:	47 - 63 Hz, single phase AC				
Inrush current:	30 Apk maximum inrush current				
Efficiency:	92% typical at high line 50% load				
Conducted EMI:	FCC Subpart J EN55022 Class A				
Radiated EMI:	FCC Subpart J EN55022 Class A				
Power factor:	0.99 typical				
Leakage current:	1.0 mA @ 240 Vac				
Hold up time:	10 ms minimum				
Output					
Main DC voltage:	+12.3 V @ 36.0 A				
Stand-By:	+12 V @ 2.3 A				
Adjustment range:	Factory Set				
Regulation:	11.85 - 12.45 Vdc 11.40 - 12.6 Vdc				
Overcurrent:	+12 Vdc; latches off if overcurrent lasts over 1 second, Trip point 120% - 150% of rated current.				
Overvoltage:	+12 Vdc; 13.6 - 15.0 Vdc +12 Vsb; 13.6 - 15.0 Vdc				
Turn-on delay:	1 - 1.5 seconds				
Main output rise time:	me: 10 - 30 mS, monotonic rise				



Logic Control	
PS_PRESENT (S4):	Used to sense the number of power supplies in the system (operational or not) and provide hot plug insertion and removal functionality by controlling main outputs during hot plug insertion and removal by employing following circuitry. When the unit is removed from the system the fast shut down signal quickly turns OFF main outputs and discharges output capacitors. This signal is the shortest gold finger pin on the signal connector to allow for last make, first break configuration.
PSOK (S6):	Combined indicator of AC input and main 12 V DC output. This is a three level signal to indicate different stages as follows.
	AC not OK and DC not OK – Signal status shall be LOW (< 0.6 V) AC OK and DC not OK – Signal status shall be LOW (< 0.6 V) AC OK and DC OK – Signal status shall be HIGH (> 3.0 V) AC not OK and DC OK – Signal status shall be Middle Level (Between 2 V and 2.5 V) DC OK threshold is defined as when the 12 V output is greater than 11.5 V. DC not OK threshold is defined as when the 12 V output is less than 11.4 V & greater than 11.3 V.
I-Mon (S7):	Provides both the load sharing function (as a feedback for output regulation droop function) and 12 V output current information.
PS INTERRUPT (S4):	The signal behavior in response to certain operating condition changes in the power supply as defined in the Firmware Specification section. This signal shall be pulled up to maximum 5 V logic level external to the PS.
PS ON (S8):	Required to remotely turn on/off the power supply. PSON# is an active low signal that turns on the main 12 V DC output. When this signal is not pulled low by the system, or left open, the 12 V output is turned off. This signal is pulled to a standby voltage by a pull-up resistor internal to the power supply. Refer to On/Off Timing for timing diagram in TRN. When in off or standby condition, the main 12 V DC output will be less than 50 mV with respect to output return.

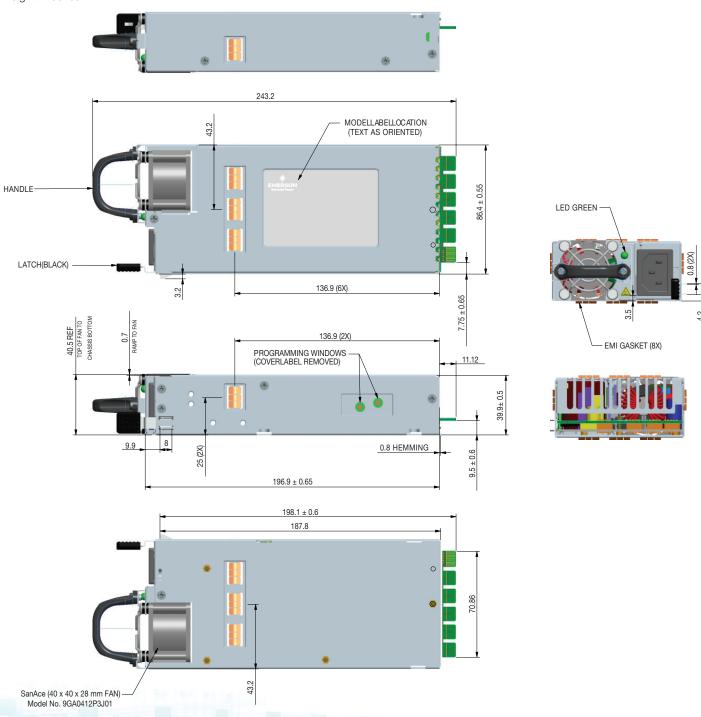
Environmental Specifications				
Operating temperature:	-10 °C to 50 °C			
Storage temperature:	-40 °C to +85 °C			
Altitude, operating:	10,000 ft.			
Electromagnetic susceptibility/Input transients:	-EN61000-3-2 -EN61000-4-2, 4.3, 4-4, -4-5, 4-6, 4-11			
RoHS & lead-free compliant	No tantalum caps.			
Humidity:	5 to 90% RH, non-condensing			
Shock and vibration specifications:	Complies with Astec Std. Specifications			
MTBF (Demonstrated):	500K Hrs at full load, 50 °C			

Ordering Inf	Ordering Information								
Model Number	Nominal Output Voltage Set Point	Set Point Tolerance	Total Regulation	Minimum Current	Maximum Current	Output Ripple P/P	Over Current	Stand-by	Air Flow
DS460S-3-002	12.3 Vdc	± 0.2%	+5%	1 A	36.0 A	120 mV	45.9 A - 57.5 A*	12.0 V @ 2.3 A	STD
DS460S-3-003	12.3 Vdc	± 0.2%	+5%	1 A	36.0 A	120 mV	45.9 A - 57.5 A*	12.0 V @ 2.3 A	REV
DS460S-3-004 (5,000 m)	12.3 Vdc	± 0.2%	± 5.0%	1.0 A	36.0 A	120 mV	45.9 A - 57.5 A*	12.0 V @ 2.3 A	STD
DS460S-3-005 (5,000 m)	12.3 Vdc	± 0.2%	± 5.0%	1.0 A	36.0 A	120 mV	45.9 A - 57.5 A*	12.0 V @ 2.3 A	REV

*Overcurrent latches off if overcurrent lasts over 1 second, otherwise it is auto recovery.

Mechanical Drawings

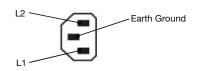
Weight: 1.88 lbs



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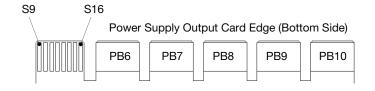
Connector Definitions				
AC Input Connector				
Pin 1	Line			
Pin 2	Neutral			
Pin 3	Eath Ground			



Output Connector - Power Blades				
PB1	Vo			
PB2	Vo			
PB3	Vo			
PB4	RTN			
PB5	RTN			
PB6	RTN			
PB7	RTN			
PB8	RTN			
PB9	Vo			
PB10	Vo			

Power Su	pply Outp	ut Card Ed	ge (Top Si	de)
PB5	PB4	PB3	PB2	PB1
S8 S1				

Output Connector - Signal Blades				
S1	VSB			
S2	VSB			
S3	Reserved			
S4	PS INTERRUPT			
S5	PS PRESENT			
S6	PSOK			
S7	I-MON			
S8	PSON#			
S9	SCL*			
S10	SDA			
S11	GND			
S12	ADD0			
S13	ADD1			
S14	ADD2			
S15	RTN			
S16	RTN			



^{*}Supports I²C standard mode (100 kHz) only

Power/Signal Mating Connectors and Pin Types					
Reference On Power Supply		Mating Connector or Equivalent			
AC Input Connector	IEC320-C13	IEC320-C14			
Output Connector	PCB card edge (0.062")	Molex 459840007 (top mount)			
		Molex 459841122 (bottom mount)			

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