

Data Sheet

Total Output Power:460 Watts+12 Vdc Standby OutputWide RangeInput 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 standby
- Hot plug operation
- N + 1 redundant
- Active current sharing
- Built-in cooling fan
- I²C communication interface bus
- PMBus compliant
- EEPROM for FRU data
- Two year warranty

SAFETY

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



DS460S

460 Watts

RoHS

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			
Standby	+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	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 inserti removal functionality by controlling main outputs during hot plug insertion and removal by employing follow circuitry. When the unit is removed from the system the fast shut down signal quickly turns OFF main output discharges output capacitors. This signal is the shortest gold finger pin on the signal connector to allow for 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 specificatons	Complies with Astec Std. Specifications		
MTBF (Demonstrated)	500K Hrs at full load, 50 °C		

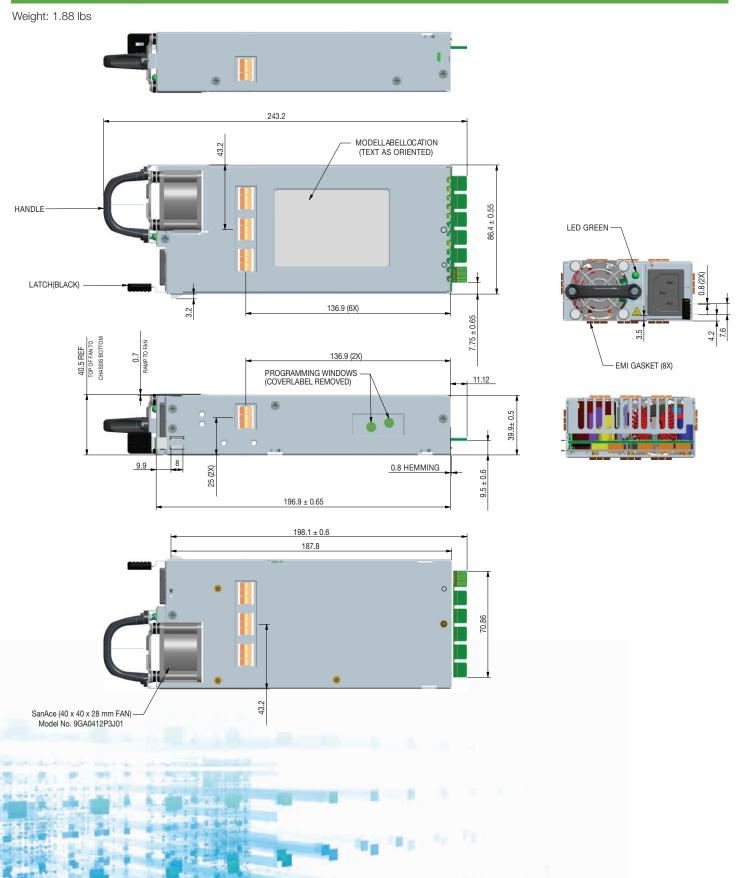
Ordering Int	Ordering Information								
Model Number	Nominal Output Voltage Set Point	Set Point Tolerance	Total Regulation	Minimum Current	Maximum Current	Output Ripple P/P	Over Current	Stand-by	Air Flow
DS460S-3-002	12.3 Vdc	± 0.2%	+5%	1 A	36.0 A	120 mV	45.9 A - 57.5 A*	12.0 V @ 2.3 A	STD
DS460S-3-003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

1.00

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



Mechanical Drawings



1.00



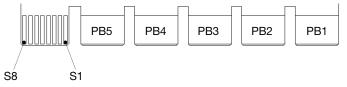
Connector Definitions				
AC Input Connector				
Pin 1 Line				
Pin 2	Neutral			
Pin 3	Earth Ground			

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

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	ADDO			
S13	ADD1			
S14	ADD2			
S15	RTN			
S16	RTN			



Power Supply Output Card Edge (Top Side)



S9 S	16				
	Power	Supply Ou	Itput Card	Edge (Bott	om Side)
	PB6	PB7	PB8	PB9	PB10

*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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