DC/DC Product Specification



- Half brick fully regulated DCDC converter.

AGH360-48S12

Half brick

Input voltage: 36-75V Single Output: 12V Rated power: 360W



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Product Description

The AGH360-48S12 is the latest high efficiency half brick series. It operates from a wide input range of 36Vdc to 75Vdc and provides a regulated output voltage of 12Vdc. The output is rated to a power level up to 360Watts. Its protection features include non latching OCP, OTP and OVP. It also has an enable pin on the primary side of the converter. The unit is an open frame design with baseplate option that is optimised for either contact-cooled applications or forced airflow applications.

Specifications

Feature				
Output power:	360W			
Super high efficiency:	95.6%(12V)			
Functions:	Remote control, trim function, Sense;			
	Input LVP, output OVP and OCP, OTP			
	Open frame structure with base plate option.			
Isolation:	Basic Insulation			
Safety				
UL:	UL60950			
TUV/CE:	IEC/EN60950			
Input specification				
Input range	36Vdc to 75Vdc			
Input Surge	100V for 100mSec			
Control specification				
Enable	TTL compatible Positive or Negative enable			
Output specification				
Output Voltage	12V dc			
Trim range	+10% to –10% Vout			
Output Current	30 A			
Ripple and noise	120mV pk-pk			
Regulation	Load regulation = $24mV$, Line regulation = $24mV$			
Switching Frequency	Fixed switching frequency 145Khz			
Isolation Voltage	1500Vdc			
Transient response.	600mV deviation 700uS recovery (50%-75% lout)			

Environmental Specification

Storage Temperature Ambient operating temp MTBF at 25degC Over temperature protection -55 to +125 deg C -40 to +85 deg C 1.5 Million hours (Vin 48V, Io=15.8A) 130deg C



Special Features

-2:1 Wide input range

- -Optimised for High density, small space applications
- -Low ripple and noise
- -Fixed switching frequency
- -High efficiency
- -High capacitive load capability
- -Basic insulation system
- Openframe structure with baseplate option
- Reflow soldering-able for openframe version

Safety

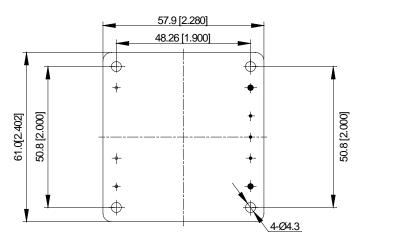
- -UL, cUL: UL60950
- -TUV/CE: IEC/EN60950

DC/DC Product Specification

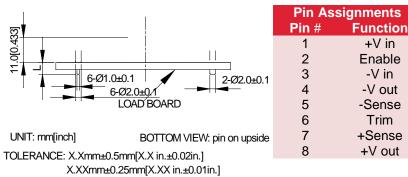
Embedded Power for Business-Critical Continuity

- Half brick fully regulated DCDC converter.

Mechanical (open frame)







Ordering information

Input voltage	Output voltage	Output current	Efficiency	Part number	
48V	12V	30A	95.6%	AGH360-48S12-6Y	
48V	12V	30A	95.6%	AGH360-48S12B-6Y	
48V	12V	30A	95.6%	AGH360-48S12-6L	
48V	12V	30A	95.6%	AGH360-48S12B-6L	

Notes

- Standard converter is Negative enable
- '-6' = 3.8mm pin length.
- 'B' = baseplate
- '-L' = RoHS-6 compliant.
- '-Y' = RoHS-5 compliant.

Notes,

- $1\$ 20Mhz bandwidth. External 10uF tantalum capacitor placed across +Vout and –Vout; 33 uF e-cap or equivalent placed across +Vin and –Vin.
- $2 \ Efficiency measurements taken at full load and nominal line and Tamb = 25 degC$
- 3\ All specifications taken at nominal line, full load and Tamb = 25degC unless otherwise noted
- 4 Mechanical dimensions are for reference only. Dimensions are in MM. Mechanical tolerance = +/-0.5mmm
- 5\ Technical reference notes should be consulted for detailed information when available.
- 6\ All specifications subject to change without notice
- 7\ Warranty 2 years
- 8\ The through-hole terminated modules aree intended for wave-soldering process special request for other manufacturing processes to be made to Emerson

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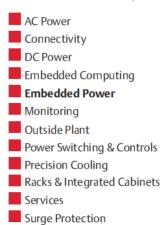
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