DC/DC Product Specification

- Half brick fully regulated DCDC converter.

Rev 04/09/2012 AGH150 series Page 1 of 2

AGH150-48S05 Half brick

Input voltage: 36-75V Single Output: 5V Rated power: 150W



Product Description

The AGH150-48S05 is the latest high efficiency half brick. It operates from a wide input range of 36Vdc to 75Vdc and provides a regulated output voltage of 5Vdc. The output is rated to a power level up to 150Watts. 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 a baseplate design that is optimised for either contact-cooled applications or forced airflow applications.

Specifications

Feature			
Output power:	150W		
Super high efficiency:	92%(5V)		
Functions:	Remote control, trim function, Sense;		
	Input LVP, output OVP and OCP, OTP, Pre-bias		
	Open frame structure with base plate option.		
Isolation:	Basic Isolation		
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	5Vdc.		
Trim range	+13% to –20% Vout		
Output Current	30A		
Ripple and noise	50mV pk-pk		
Regulation	Load regulation = 16.5mV , Line regulation = 6.6mV		
Switching Frequency	Fixed switching frequency 280Khz		
Isolation Voltage	2000Vdc		
Transient response.	150mV deviation 200		
	lout, 0.1A/uS) Typ.		

Environmental Specification

Storage Temperature Ambient operating temp MTBF at 25degC OTP -55 to +125 deg C -40 to +85 deg C 2 Million hours (Vin 48V, Io=30A) 110 deg 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
- -Pre-bias start-up capability
- Openframe structure with Baseplate option

Safety

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

DC/DC Product Specification

Embedded Power for Business-Critical Continuity

- Half brick fully regulated DCDC converter.

Rev 04/09/2012 AGH150 series Page 2 of 2



5810 Van Allen Way Carlsbad, CA 92008 USA Telephone: +1 (760) 930 4600 Facsimile: +1 (760) 930 0698

Europe (UK)

Waterfront Business Park Menry Hill, Dudley West Midlands, DY5 1LX United Kingdom Telephone: +44 (0) 1384 842 211 Facsimile: +44 (0) 1384 843 355

Asia (HK)

14/F, Lu Plaza 2 Wing Yip Street Kwun Tong, Kowloon Hong Kong Telephone: +852 2176 3333 Facsimile: +852 2176 3888

For global contact, visit:

www.powerconversion.com

techsupport.embeddedpower @emerson.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Pawer assumes no responsibility, and disclaims all liability for damages exploing from use of this information or for any enors or omissions.

Emerson Network Power.

The global leader in enabling business-critical continuity.



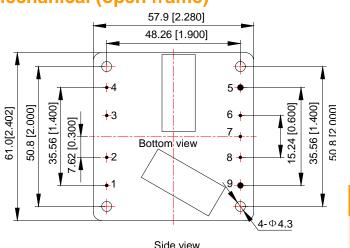
Surge Protection

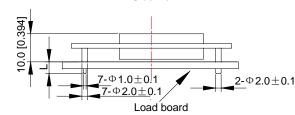
EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. ©2008 Emerson Electric Co.









Pin Assignments				
Pin #	Function			
1	+V in			
2	Enable			
3	Case			
4	-V in			
5	-V out			
6	-Sense			
7	Trim			
8	+Sense			
9	+V out			

Unit: mm[inch] Bottom view: pin on upside

Tolerance: X.Xmm \pm 0.5mm[X.X in. \pm 0.02in.]

X.XXmm \pm 0.25mm[X.XX in. \pm 0.01in.]

Ordering information

vonage	vonage	current		
48V	5V	30A	92%	AGH150-48S05-6
48V	5V	30A	92%	AGH150-48S05P-6
48V	5V	30A	92%	AGH150-48S05B-6
48V	5V	30A	92%	AGH150-48S05PB-6

Part number

Notes

- Standard converter is Negative enable

- 'B' = Baseplate

- '-6' = 3.8mm pin length.
- '-P' = Positive remote control,

Notes,

- $1 \ge 20$ Mhz bandwidth. External 10uF tantalum capacitor placed across +Vout and -Vout; 33 uF e-cap or equivalent placed across +Vin and -Vin.
- $2 \in Efficiency measurements taken at full load and nominal line and Tamb = 25 degC$
- 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