

ARLITECH

HDG03W Series

Specifications

Input

● Input Voltage Range	10~40 Vdc(24V Nom.) 18~75 Vdc(48V Nom.)
● Input Surge Voltage	50/100Vdc(100ms Pulse)
● Input Filter	π Type
● Reflected Ripple Current	50mA p-p
● Start-up Time	400ms

Output

● Output Power	3W
● Min Load Current	20%
● Voltage Accuracy	$\pm 2\%$
● Line Regulation	$\pm 1\%$
● Load Regulation	$\pm 1\%$ (20%~100% load)
● Cross Regulation	$\pm 5\%$ (25%~100% load)
● Transient Recovery Time	350us
● Transient Response Deviation	$\pm 4\%$ of Vout(25% load step)
● Temperature Coefficient	$\pm 0.02\%$
● Ripple/Noise	75mV (12V,15V) 50mV (3.3V, 5V)

Protection

● Over Load Protection	(Fold Back)
● Short Circuit Protection	(Auto Recovery)

General

● Isolation Voltage (In/Out)	1000 Vdc
● Isolation Capacitance	60pF
● Isolation Resistance	1G ohm
● Case Material	Plastic(UL94-V0)
● Weight	13g

Features

- 4:1 Wide Input Voltage Range
- Fully Encapsulated Plastic Case
- Available RoHS Compliant
- UL, CE Safety Approving
- Industry -Standard Package and Pinout
- 32.00 x 20.32x 10.16 mm package
- 2 Years Warranty

SAFETY&EMC

SAFETY

- UL UL60950-1(Pending)
- TUV EN60950-1(Pending)

EMC

- Radiation EN55022 (Class A)

Environmental

- Operating Temperature $-40^{\circ}\text{C} \sim 120^{\circ}\text{C}$ (Derating)
- Storage Temperature $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$
- Cooling Free air convection
- Humidity 20% ~ 95%RH
- MTBF >1.0 Million hours

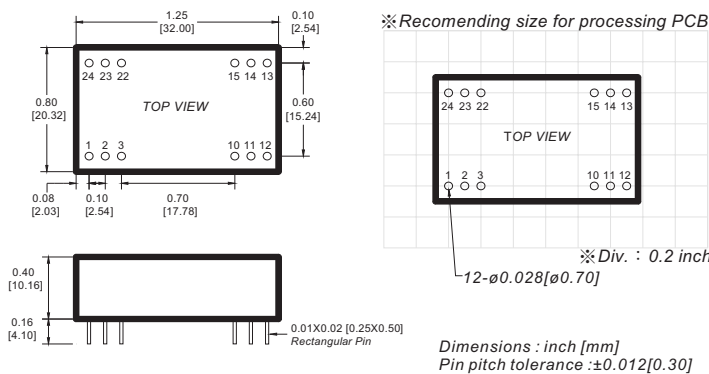
SBS Power Electronic GmbH & Co.KG
 Weidenstrasse 19, 21635 Jork
 Tel: 04162-911123 Info@SBS-Power.de

Ordering Information

Module Number	Output Voltage	Output Current	Efficiency	Capacitor Load
HDG03W-24S3P3	3.3V	900mA	78%	680uF
HDG03W-24S05	5V	600mA	79%	470uF
HDG03W-24S12	12V	250mA	84%	330uF
HDG03W-24S15	15V	200mA	84%	220uF
HDG03W-48S3P3	3.3V	900mA	78%	680uF
HDG03W-48S05	5V	600mA	89%	470uF
HDG03W-48S12	12V	250mA	84%	330uF
HDG03W-48S15	15V	200mA	84%	220uF
HDG03W-24D05	± 5V	± 300mA	79%	± 220uF
HDG03W-24D12	± 12V	± 167mA	81%	± 150uF
HDG03W-24D15	± 15V	± 125mA	84%	± 100uF
HDG03W-48D05	± 5V	± 300mA	79%	± 220uF
HDG03W-48D12	± 12V	± 167mA	81%	± 150uF
HDG03W-48D15	± 15V	± 125mA	84%	± 100uF

Pin Define

Pin No.	1,24	2,23	3,22	10,15	11,14	12,13
Single	+VI	NO PIN	NO PIN	-VO	+VO	-VI
Dual	+VI	-VO	COM	COM	+VO	-VI



Notes

- All specification are typical at nominal line, full load, and 25 °C ambient air temperature.
- Ripple/Noise measured with a 1uF M/C and 100uF E/C(20MHz bandwidth).
- Certain applications may require to install an external 1A slow blow type fuse in front of the input.
- To measure input reflected ripple current must with a simulated source inductance of 12uH, and capacitor of 220 uF offsets possible battery impedance, capacitor of 33uF mounted close to the module help ensure the stability.