

FEATURES :

- Universal Input 85~265VAC
- High Efficiency Up To 82%
- Protection: Short Circuit / Overload/Over Voltage
- Energy Efficiency Conforms to DOE6
- No Load Power Consumption<0.1W
- 3 Years Warranty
- ROHS Compliant

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output Wattage	Output Voltage	Output Current	Ripple & Noise	Efficiency
	(W)	(VDC)	(mA)	(mV) max	(TYP %)
GA10G-S05-X	5	5	2000	200	76
GA10G-S12-X	10.08	12	840	200	81
GA10G-S15-X	10.05	15	670	200	81
GA10G-S24-X	10.08	24	420	200	82

Notes:

X= ONE digit representing the output power (W) The output power is rising in steps of 1W from 1W to the max. output Power; When the output power is maximum power, X is omitted.

E.g:5W=GA10G-S05-5,GA10G-S15-5 10W=GA10G-S05,GA10G-S15

Input Specifications

Parameters	Conditions		Min	Typ	Max	Units
Rated Input Voltage	Vo, Io nom		100~240			Vac
Voltage Range	Vo, Io nom	AC in	85		265	Vac
		DC in	100		370	Vdc
Line Frequency	Vi nom, Io nom		47		63	Hz
Inrush Current	Io nom	Vi:115VAC			30	A
		Vi:230VAC			60	A
Leakage Current						0.25 mA
Input Current (Full load)	250mA TYP.(115Vac) 150mA TYP.(230Vac)					
External Fuse(recommend)	VDE/UL/CCC FUSE 2.5A/250V (Slow blow).					

YUAN DEAN SCIENTIFIC



Green AC-DC Converter

GA10G SERIES

10Watt

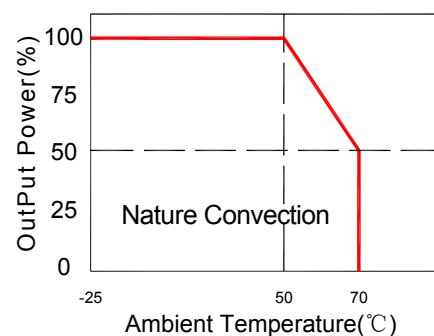
3KVac Isolated

Single Output

2" x 1" Package Module



Temperature Derating Graph



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Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	V_i nom, I_o nom			±5	%
Minimum Load	V_i nom	0			%
Line Regulation	I_o nom, V_i min... V_i max		±2.0		%
Load Regulation	V_i nom, I_o min... I_o nom		±3.0		%
Protection	Over load	Above 115% rated output power			
		Protection type: Recovers automatically after fault condition is removed			
	Over Voltage	120%-150% rated output Voltage			
		Protection type: Zener diode clamp			
	Short circuit	Recovers automatically after fault condition is removed			

Notes:

Ripple & noise is measured by using 20 MHz bandwidth, measured with a 47uf paralleled with a high-frequency 0.47uf capacitor across each output by full load.

General Specifications

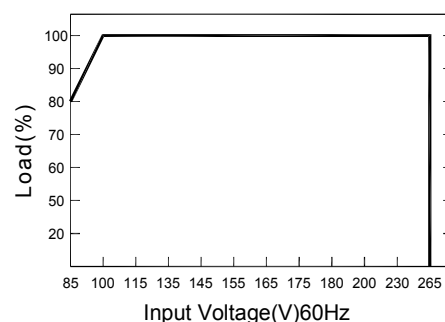
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	V_i nom, I_o nom		65		KHz
Isolation Voltage	Input / Output	3KVac/ 5mA/5Secs			
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Refer to Temperature Derating Graph	-25		+70	°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	V_i nom, I_o nom			95	% RH
Safety Standards	Design refer to EN62368-1				
EMI Conduction & Radiation	Design refer to EN55032				
EMS Immunity	Design refer to EN55024				
Dimension	L50.80x W25.40 x H17.02mm				
Cooling	Free air convection				

Part Number

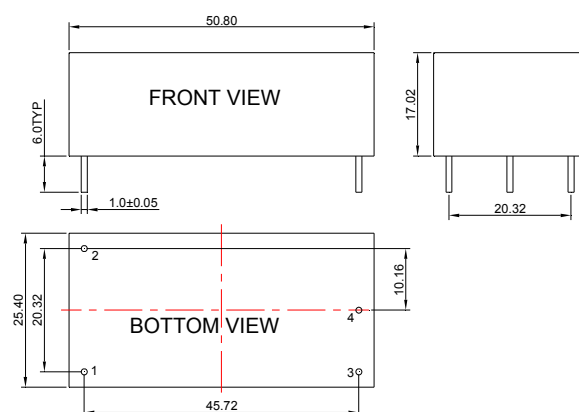
GA10G - S 12
A B C

A:Series
B:Single Output
C:Output Voltage

Output Derating VS Input Voltage



Markings and Dimensions



Unit : mm ,
Unless otherwise specified, all tolerances are ±0.50

PIN Connection

PIN	1	2	3	4
GA10G	ACN	ACL	-Vo	+Vo