TRI-MAG, Inc.
® your POWER Specialists

1601 N. CLANCY CT. • VISALIA, CA 93291
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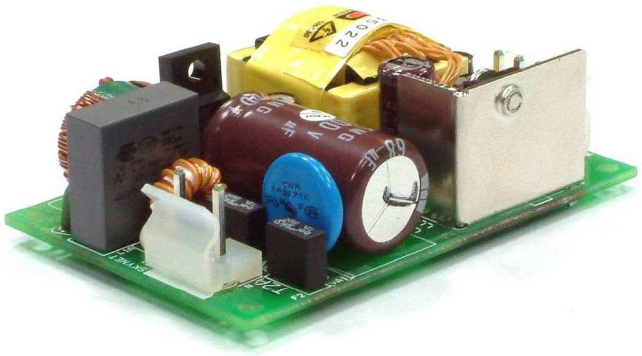
DG040 Series

40 Watts, Peak 55 Watts

Universal Input, for Medical & ITE Applications



DESCRIPTION

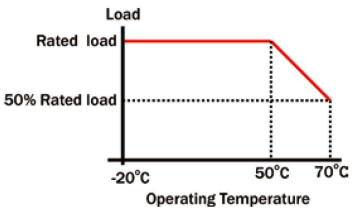
The DG040 Series is a small 40 watt universal Input for medical and ITE applications. The power density is 6.7W/in³ and is designed for medical or ITE applications and is green energy approved. The DG040 Series is only for single outputs.

FEATURES

- *ITE/Medical applications*
- *Universal input 90VAC to 264VAC*
- *High power density (6.7W/in³)*
- *Green power*
- *Small Size*
- *Single output*
- *Class II Safety & EMC*

APPLICATIONS

- *ITE/Medical application*
- *Telecommunication*
- *PCB power*
- *Battery charging system*

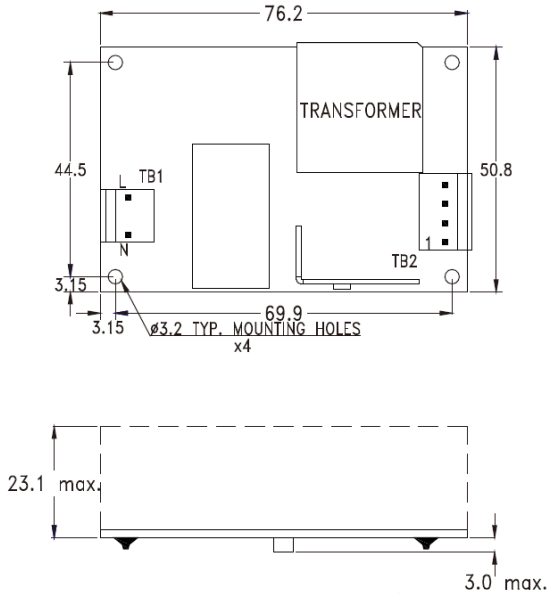


GENERAL SPECIFICATIONS

Input Voltage……...….... 90VAC to 264VAC
Input Frequency…….. 47Hz to 63Hz
Inrush Current (cold)……...…… Less than 30A at 115VAC or 60A at 230VAC cold start, 25°C
Operating Temperature…….-20°C to 70ºC
Storage Temperature……..……..–40ºC to 85ºC
Cooling……Convection Cooling
Efficiency……...…..>84% Typical
Holdup Time…….>18ms
Overload Protection……...…….……Auto Recovery

Safety :
Designed in full compliance with…….…...UL 60950-1
UL60601-1
EMI……...……. …..EN55022 “B”
Harmonics……...……EN61000-3-2 class A
EMS……...EN61000-4-2,-3,-4,-5,-6,-11

MECHANICAL SPECIFICATIONS



Note:
1. Dimensions show in mm above
2. Size: 2”x 3”x 0.9” (50.8 x 76.2 x 23.1)mm
3. Connector: TB1 AC Input : Molex 5277-02A
TB2 DC Output: Molex 5273-04A

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OUTPUT SPECIFICATIONS

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
DG040-7	40	+12V	0A	3.33A	4.70A	1%	100 mV	±0.5%	±1%
DG040-8	40	+15V	0A	2.66A	3.80A	1%	100 mV	±0.5%	±1%
DG040-5	40	+18V	0A	2.22A	3.20A	1%	100 mV	±0.5%	±1%
DG040-9	40	+24V	0A	1.66A	2.40A	1%	150 mV	±0.5%	±1%
DG040-G	40	+28V	0A	1.42A	2.00A	1%	150 mV	±0.5%	±1%
DG040-J	40	+36V	0A	1.11A	1.60A	1%	150 mV	±0.5%	±1%
DG040-T	40	+48V	0A	0.83A	1.16A	1%	150 mV	±0.5%	±1%

DG040 SERIES 40 WATT— PIN ASSIGNMENT

Model \ Pin	1	2	3	4
DG040-7	+12V	+12V	GND	GND
DG040-8	+15V	+15V	GND	GND
DG040-5	+18V	+18V	GND	GND
DG040-9	+24V	+24V	GND	GND
DG040-G	+28V	+28V	GND	GND
DG040-J	+36V	+36V	GND	GND
DG040-T	+48V	+48V	GND	GND

Note: Contact factory for Safety Agency Approved status.

1. Each output can provide up to max load separately when the power supply starts up. To exceed the max. output power continuously is not allowed.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of measured ouput load from 60% rated load at another output set to 60% rated load.
5. The ripple and noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47 µF capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit output of main output at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.