TRI-MAG, LLC
® A Curtis Industries Company

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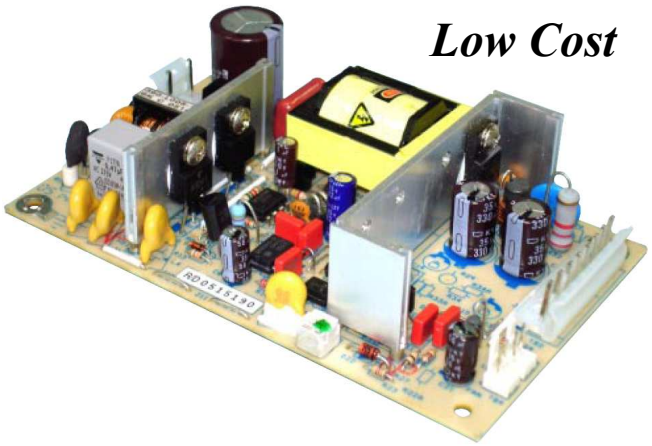
DY060 SERIES

60 WATT POWER SUPPLY FOR MEDICAL AND INDUSTRIAL APPLICATIONS 90 WATT PEAK CURRENT



Low Cost

DESCRIPTION

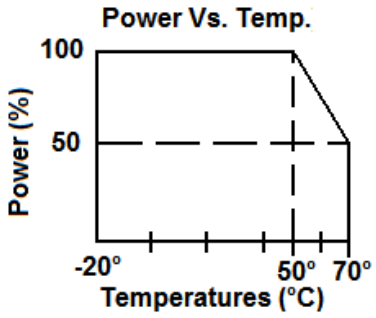
DY060 series is a universal input multiple output power supply. The series is a 60 Watt power supply in the size of 2.5" x 4.5" with a wattage density of 4.2W/in^3. The efficiency can reach up to 78-87% depending on model.

FEATURES

- *EMI FCC Class B*
- *No Minimum Load Required*
- *Single and Multiple Output*
- *Universal input 90VAC to 264VAC*
- *Low Leakage Current*
- *Double Fused*

APPLICATIONS

- *Computer Peripherals*
- *Telecommunications*
- *Tape Drives*
- *Test Instrumentation Product*
- *Data Acquisition*
- *Medical & Dental*

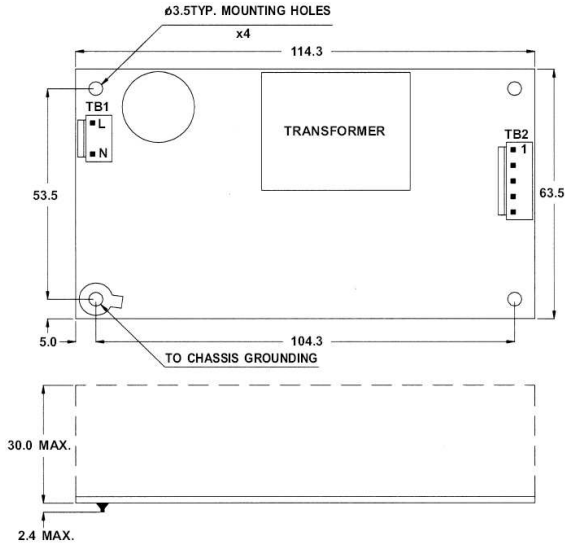


GENERAL SPECIFICATIONS

Input Voltage……..….... 90VAC to 264VAC
Input Frequency…….. 47Hz to 63Hz
Inrush Current (cold)……..…… Less than 30A at 115VAC, 25°C
Operating Temperature……..…….. 0 to 70ºC de-rated 2.5%/°C >50°C
Storage Temperature……-40°C to 85°C
Cooling…….. Free Air Convection
Efficiency……..…...78% to 87%
Holdup Time…….>16ms at 115VAC
Overvoltage Type…….…… Latch Off
Overload Protection……..…….. Auto recovery
Short Circuit Protection……Auto recovery
Earth Leakage……...…<300µA Max @ 240VAC
Designed in full compliance with UL 60950-1, UL 60601-1, CSA 22.2 #60950-1,601.1 EN60950-1,EN60601-1
EMI ……..……FCC "B" EN55022 "B", EN55011 "B"

EMS……...EN61000-4-2,-3,-4,-5,-6,-8,-11
Harmonics……..… EN61000-3-2 Class A

MECHANICAL SPECIFICATIONS



Connector:
AC input : JST B3P-VH Remove 1 pin or equivalent
DC output : Single output: JST B4P-VH or equivalent
Multiple Output JST B6P-VH . or equivalent

Size: 63.5mm x 114.3mm x 30mm 2.5" x 4.5" x 1.18"
Mounting Holes: 53.5mm x 104.3mm 2.1" x 4.1"

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OUTPUT SPECIFICATIONS

Model	Watts	Voltage (Vdc)	Output Rated (A)				Voltage Tolerance ±	Ripple & Noise Pk to Pk	Regulation	
			Min.	Rate	Max	Peak			Line	Load
DY060-1	60	+5V	0	3	5	7	±1%	1%	±1%	±3%
		+12	0	3	4	6	±5%	1%	±1%	±3%
		-12	0	0.3		-	±5%	1%	±1%	±5%
DY060-6	60	+5V	0	10		15	±1%	1%	±1%	±1%
DY060-7	60	+12V	0	4.8		7.5	±1%	1%	±1%	±1%
		+5V	0	0.5		1	±5%	1%	±1%	±1%
DY060-7-1	60	+12V	0	5		7.5	±1%	1%	±1%	±1%
DY060-8	60	+15V	0	3.8		6.0	±1%	1%	±1%	±1%
		+5V	0	0.5		1	±5%	1%	±1%	±1%
DY060-8-1	60	+15V	0	4.0		6.0	±1%	1%	±1%	±1%
DY060-9	60	+24V	0	2.4		3.8	±1%	1%	±1%	±1%
		+5V	0	0.5		1	±5%	1%	±1%	±1%
DY060-9-1	60	+24V	0	2.5		3.8	±1%	1%	±1%	±1%
DY060-14	60	+48V	0	1.25		1.9	±1%	1%	±1%	±1%
DY060-D	60	+3.3V	0	5		7	±1%	1%	±1%	±3%
		+5V	0	4		5.5	±5%	1%	±1%	±3%
		+12V	0	1		-	±5%	1%	±1%	±5%
DY060-11	60	+5V	0	3	5	7	±1%	1%	±1%	±3%
		+24V	0	1.5	2	3	±5%	1%	±1%	±3%
		+12V	0	0.3			±5%	1%	±1%	±5%

Note: Contact factory for Safety Agency Approved status.

1. Each output can provide up to peak load temporarily. Continuous operation at greater than rated load 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 output load from 60% rated load.
5. The ripple and noise is measured by using 15MHz bandwidth limited oscilloscope. Each output is terminated 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 when the main output drops down to 95% output voltage at rated load and nominal line.
7. Efficiency is measured at rated load.

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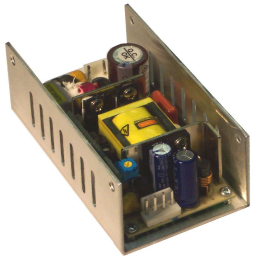
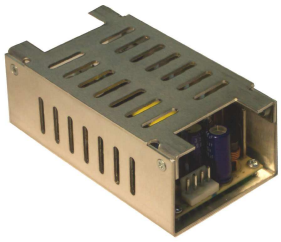
DY060 SERIES 60 WATT— PIN ASSIGNMENT

Model \ Pin	1	2	3	4	5	6
DY060-1	+5V	+5V	GND	GND	+12V	-12V
DY060-6	+5V	+5V	+5V	GND	GND	GND
DY060-7	+12V	+12V	GND	GND	+5V	NC
DY060-7-1	+12V	+12V	GND	GND		
DY060-8	+15V	+15V	GND	GND	+5V	NC
DY060-8-1	+15V	+15V	GND	GND		
DY060-9	+24V	+24V	GND	GND	+5V	NC
DY060-9-1	+24V	+24V	GND	GND		
DY060-14	+48V	+48V	GND	GND		
DY060-D	+3.3V	+3.3V	GND	GND	+5V	+12V
DY060-11	+5V	+5V	GND	GND	+24V	+12V

ENCLOSURES (optional)

EUS ***ECS***





Our Standard power supplies, the DY060 Series, can be installed into a fully-enclosed chassis or in a 'U' shape chassis as an option. These options offer two mounting planes. The fully enclosed option helps to reduce radiated noise.

Example Part Number:
DY060-9ECS or DY060-9EUS

*Note DY040 pictured in chassis