

1601 N. CLANCY CT. • VISALIA, CA 93291 (559) 651-2222 • FAX (559) 651-0188 http://www.tri-mag.com sales@tri-mag.com

DY075 SERIES

75 Watts For Medical & Industrial Applications 120 Watts Peak Current



DESCRIPTION

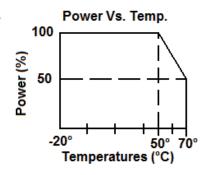
DY075 series is a universal input multiple output power supply. The series is a 75 watts power supply in the size of 3"x 5" with a wattage density of 3.9W/in³. The efficiency can reach up to 75-87% depending on model.

FEATURES

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

APPLICATIONS

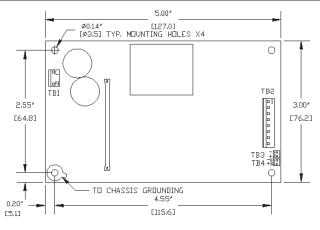
- Computer Peripherals
- Telecommunications
- Tape Drives
- Test Instrumentation Product
- Data Acquisition
- Medical & Dental

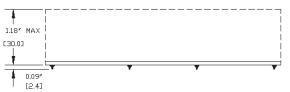


GENERAL SPECIFICATIONS

Input Voltage	90VAC to 264VAC
Input Frequency	47Hz to 63Hz
Inrush Current (cold)	Less than 30A at
,	115VAC, 25°C
Operating Temperature	0 to 70°C
	de-rated 2.5%/°C >50°C
Storage Temperature	20°C to 85°C
Cooling	Free Air Convection
	75% to 87%
Holdup Time	>20ms at 115VAC
Overvoltage Type	Latch Off
Overload Protection	Auto recovery
Short Circuit Protection	Auto recovery
	300µA Max @ 240VAC
Designed in full compliance	ce with UL 60950, UL2601-1
	CSA 22.2 #601-1,#234
	EN60601-1
EMI	EN55022 "B", EN55011 "B"
	FCC docket class "B"
	N61000-4-2,-3,-4,-5,-6,-8,-11
Harmonics	EN61000-3-2 Class A

MECHANICAL SPECIFICATIONS





Connector: TB1—AC input TB2—DC output TB3 for LED use : Molex 5277-02A or equivalent : Molex 5273-08A or equivalent : Molex 5045-02A or equivalent

TB4 for Remote sense : Molex 5045-02A or equivalent Size: 76.2mm X 127mm X 30mm, $\,3^{\circ}$ X 5° X 1.18 $^{\circ}$

Mounting Holes: 64.8mm X 115.6mm, 2.55" X 4.55"



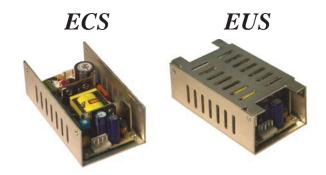
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OUTPUT SPECIFICATIONS										
26.11	***	Voltage	Load (A)			Tolerance	Ripple	Regulation		
Model	Watts	(Vdc)	Min.	Rate	Peak	±	& Noise	Line	Load	
DY075-6	75	+5V	0	14	-	1%	100 mV	1.0%	±1%	
DY075-7	75	+12V +5V	0	5.6 0.5	9.0	1% 5%	100 mV 50 mV	1.0% 1.0%	±1% ±1%	
DY075-8	75	+15V +5V	0	4.8 0.5	8.0	1% 5%	100 mV 50 mV	1.0% 1.0%	±1% ±1%	
DY075-9	75	+24V +5V	0	3.0 0.5	5.0	1% 5%	200 mV 50 mV	1.0% 1.0%	±1% ±1%	
DY075-3	75	+5V +12V	0	3.5 4.0	5.0 9.0	1% 5%	50 mV 100 mV	1.0% 1.0%	±3% ±3%	
DY075-1	75	+5V +12V -12V	0 0 0	3.5 3.5 0.3	5.0 9.0	1% 5% 5%	50 mV 100 mV 100 mV	1.0% 1.0% 1.0%	±3% ±3% ±5%	
DY075-19	75	+3.3V +5V +12V	0 0	6.0 4.0 2.0	10.0 7.0	3% 5% 5%	50 mV 50 mV 120 mV	1.0% 1.0% 1.0%	±3% ±3% ±5%	
		-12V	0	0.6	-	1%	120 mV	1.0%	±5%	
DY075-14	75	+48V	0	1.6	-	1%	300 mV	1.0%	±1%	
DY075-18	50	+3.3V	0	15	-	1%	50 mV	1.0%	±1%	

Note: Contact factory for Safety Agency Approved status.

- 1. Each output can provide up to peak load temporarily. Continuous staying in more 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 $\pm 10\%$ 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.
- 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.

ENCLOSURES (optional)



Our Standard power supplies, the DY075 Series, can be installed into a fully enclosed chassis or in a 'U' shape chassis as an option. These options offer two mounting planes to choose from. The fully enclosed option help to reduce radiated noise.

Example Part Number: DY075-9ECS or DY075-9EUS

*Note DY040 pictured in chassis



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DY075 SERIES 75 WATT— PIN ASSIGNMENT										
Pin	1	2	3	4	5	6	7	8		
DY075-6	+5V	+5V	+5V	+5V	COM	COM	COM	COM		
DY075-7	+12V	+12V	+12V	COM	COM	COM	COM	+5V		
DY075-8	+15V	+15V	+15V	COM	COM	COM	COM	+5V		
DY075-9	+24V	+24V	+24V	COM	COM	COM	COM	+5V		
DY075-3	+5V	+5V	COM	COM	COM	COM	+12V	+12V		
DY075-1	+5V	+5V	COM	COM	+12V	+12V	-12V	N/C		
DY075-19	+3.3V	+3.3V	COM	COM	+5V	+5V	-12V	+12V		
DY075-14	+48V	+48V	+48V	COM	COM	COM	COM	+5V		
DY075-18	+3.3V	+3.3V	+3.3V	+3.3V	COM	COM	COM	COM		