

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

DY110 SERIES

110 Watts For Medical & Industrial Applications 160 Watts Peak Current



DESCRIPTION

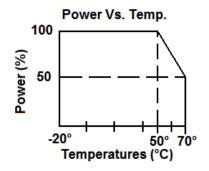
DY110 series is a universal input multiple output power supply. The series is a 110 Watt power supply in the size of 3.5"x 6" with a wattage density of 3.8W/in³. The efficiency can reach up to 78-87% depending on model.

FEATURES

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

APPLICATIONS

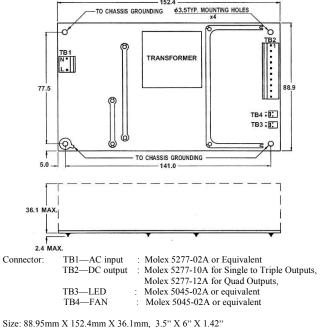
- Computer Peripherals
- Telecommunications
- Tape Drives
- Test Instrumentation Product
- Data Acquisition
- Medical & Dental



GENERAL SPECIFICATIONS

Input Voltage	90VAC to 264VAC
Input Frequency	
Inrush Current (cold)	
	115VAC. 25°C
Operating Temperature	0 to 70°C
	de-rated 2.5%/°C >50°C
Storage Temperature	40°C to 85°C
Cooling	Free Air Convection
Efficiency	78% to 87%
	At rated load and 115Vac
Holdup Time	>16ms at 115VAC
Overvoltage Type	Latch Off
Overload Protection	
Short Circuit Protection	Auto recovery
Earth Leakage	<300μA
Designed in full compliance	
	UL60601-1
	CSA 22.2 #60950-1,601.1
	EN60950-1,EN60601-1
EMIEl	N55022 "B", EN55011 "B"
	FCC docket class "B"
EMSENG	61000-4-2,-3,-4,-5,-6,-8,-11
Harmonics	EN61000-3-2 Class A

MECHANICAL SPECIFICATIONS



Size: 88.95mm X 152.4mm X 36.1mm, 3.5" X 6" X 1.42' Mounting Holes: 77.5mm X 141, 3.05" X 5.55"



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OUTPUT SPECIFICATIONS											
Model	Watts	Voltage (Vdc)	Load (A)				Voltage	Ripple	Regulation		
			Min.	Rate	Max	Peak	Tolerance ±	& Noise Pk to Pk	Line	Load	
DY110-2	110	+5V +12V -12V	0 0 0	7 5 0.5	13 7	20 11 -	±1% ±5% ±5%	1% 1% 1%	±1% ±1% ±1%	±3% ±3% ±5%	
DY110-19	110	+3.3V +5V +12V -12V	0 0 0 0	10 8 2 0.2	12 10	12 10 -	±3% ±5% ±5% ±5%	50m vp-p 1% 1% 1%	±1% ±1% ±1% ±1%	±3% ±3% ±5% ±5%	
DY110-6	110	+5V	6	19		-	±1%	1%	±1%	±1%	
DY110-7	110	+12V +5V	0	8.5 1		13	±1% ±5%	1% 1%	±1% ±1%	±1% ±1%	
DY110-7-1	110	+12V	0	9		13	±1%	1%	±1%	±1%	
DY110-8	110	+15V +5V	0	7 1		10.5 1	±1% ±5%	1% 1%	±1% ±1%	±1% ±1%	
DY110-8-1	110	+15V	0	7		10.5	±1%	1%	±1%	±1%	
DY110-9	110	+24V +5V	0	4.5 1		6.5 1	±1% ±5%	1% 1%	±1% ±1%	±1% ±1%	
DY110-9-1	110	+24V	0.1	4.5		6.5	±1%	1%	±1%	±1%	
DY110-14	110	+48V	0	2.3		3.5	±1%	1%	±1%	±1%	
DY110-1	110	+5V +12V -12V -5V	0 0 0	6 5 0.5 0.5	13 7	20 11 -	±2% ±5% ±5% ±5%	1% 1% 1% 1%	±1% ±1% ±1% ±1%	±3% ±3% ±5% ±3%	
DY110-11	110	+5V +24V +12V -12V	0 0 0 0	6 2 2 0.3	10 3	15 5.5 -	±2% ±5% ±5% ±5%	1% 1% 1% 1%	±1% ±1% ±1% ±1%	±3% ±3% ±5% ±5%	

Note: Contact factory for Safety Agency Approved status.

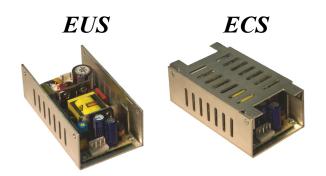
- 1. Each output can provide up to peak load temporarily. Continuous operation at greater than rated load is not allowed.
- 2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- 3. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing $\pm 40\%$ 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.
- Efficiency is measured at rated load.



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DY110 SERIES 110 WATT —— PIN ASSIGNMENTS												
Pin Model	1	2	3	4	5	6	7	8	9	10	11	12
DY110-1	+5V	+5V	+5V	GND	GND	GND	+12V	+12V	-12V	GND	-5V	NC
DY110-2	+5V	+5V	+5V	GND	GND	GND	+12V	+12V	-12V	NC		
DY110-6	+5V	+5V	+5V	+5V	GND	GND	GND	GND	NC	NC		
DY110-7	+12V	+12V	+12V	+12V	GND	GND	GND	GND	+5V	NC		
DY110-7-1	+12V	+12V	+12V	+12V	GND	GND	GND	GND	NC	NC		
DY110-8	+15V	+15V	+15V	+15V	GND	GND	GND	GND	+5V	NC		
DY110-8-1	+15V	+15V	+15V	+15V	GND	GND	GND	GND	NC	NC		
DY110-9	+24V	+24V	+24V	+24V	GND	GND	GND	GND	+5V	NC		
DY110-9-1	+24V	+24V	+24V	+24V	GND	GND	GND	GND	NC	NC		
DY110-14	+48V	+48V	+48V	+48V	GND	GND	GND	GND	NC	NC		
DY110-11	+5V	+5V	+5V	GND	GND	GND	+24V	+24V	+12V	GND	-12V	NC
DY110-19	+3.3V	+3.3V	+3.3V	GND	GND	GND	GND	GND	+5V	+5V	+12V	-12V

ENCLOSURES (optional)



Our Standard power supplies, the DY090 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: DY090-9ECS or DY090-9EUS

^{*}Note DY040 pictured in chassis