

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



DESCRIPTION

DT Series is a 10, 20, 30, 50, 70 watt Desk-Top switching power supply. It comes with an IEC AC inlet to accommodate worldwide applications, These power supplies are perfect for low to medium power applications, such as Hard Disk Drives, Modems, Computers and other products that require an external power source.

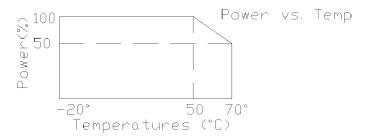
With TRI-MAG leadership in universal power supply technology, we have been able to incorporate our proven design into this space saving desk-top unit.

FEATURES

- EMI FCC Class B
- No Minimum Load Required
- Single and Multiple Output
- Universal input 90VAC to 260VAC

APPLICATIONS

- Computer Peripherals
- Modems
- Hard Disk Drives
- Tape Drives
- Test Instrumentation Product
- Data Acquisition









GENERAL SPECIFICATIONS

Line Voltage	90VAC to 260VAC
Input Frequency	47Hz to 63Hz
Inrush Current (cold)	Depend on model;
	115VAC, 230VAC
Operating Temperature	0 to 50°C
Storage Temperature	20°C to 85°C
Cooling	Free Air Convection
Efficiency	70% Typical
Holdup Time	20ms at 115VAC
Overvoltage Type	Crowbar
Overload Protection	Foldback
	Within 150% rated load
Safety:	
Designed in full compliance w	ith UL 1950
	CSA 22.2 #234
	VDE EN60950
EMI	Meet FCC class B
	VDE class B

MECHANICAL SPECIFICATIONS

All Dimension In Inches (mm)

Tole rance:

±.039" (1mm) except length of cable

Case Size:

DT 410 4.00" x 2.00" x 1.25" (101.6 x 50.8 x 31.8)

DT 420 5.90" x 2.95" x 1.69" (150 x 75 x 43)

DT 430 6.50" x 3.15" x 2.25" (165 x 80 x 57)

DT 450 6.50" x 3.15" x 2.25" (165 x 80 x 57)

DT 470 7.09" x 3.74" x 2.48" (180 x 95 x 63)

Connectors:

See Drawing

Length of cable:

5 ft.



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Model	Watts	Voltage (Vdc)	Load (A)		Tolerance	Ripple	Regulation		
			Min.	Rate	Peak	±	& Noise	Line	Load
DT410-4	10	+5V	0	2.0	4.0	1%	50 mV	1%	3%
DT410-5	10	+12V	0	1.0	1.8	1%	50 mV	1%	3%
DT410-6	10	+24V	0	0.5	0.9	1%	100 mV	1%	3%
DT410-17	10	+9V	0	1.5	1.8	1%	100 mV	1%	3%
DT410-14	10	+48V	0	0.25	0.25	1%	200 mV	1%	3%
DT420-1	20	+5V	0	1.0	2.0	1%	50 mV	1%	3%
		+12V	0	1.0	2.0	5%	100 mV	1%	5%
		-12V	0	0.3	0.5	8%	100 mV	1%	5%
DT420-2	20	+5V +12V	0 0	1.0 1.0	2.0 2.0	1% 5%	50 mV 100 mV	1% 1%	5% 5%
DT420-4	20	+5V	0	4.0	-	1%	50 mV	1%	5%
		+5V	0	2.0	3.0	1%	50 mV	1%	3%
DT430-1	30	+12V	0	1.5	2.4	5%	120 mV	1%	5%
DE120.2	20	-12V	0	0.3	0.5	8%	120 mV	1%	5%
DT430-3	30	+18V	0	2.0	-	1%	100 mV	1%	3%
DT430-5	30	+12V	0	2.5	-	1%	100 mV	1%	3%
DT430-8	30	+15V	0	2.0	-	1%	100 mV	1%	3%
DT430-6	30	+24V	0	1.5	-	1%	100 mV	1%	3%
DT430-4	30	+5V	0	5.0	-	1%	50 mV	1%	3%
DT450-1	50	+5V	0	3.0	4.0	1%	50 mV	1%	5%
		+12V	0	2.5	3.0	5%	120 mV	5%	6%
DT450-2	50	-12V	0	0.3	0.5	8%	120 mV	8%	5%
		+5V +12V	0 0	3.5 2.5	4.0 3.0	1% 5%	50 mV 120 mV	1% 5%	5% 6%
DT450-3	50	+18V	0	3.0	3.0	1%	100 mV	1%	5%
DT450-4RS	50	+5V	0	8.0	8.0	1%	50 mV	1%	5%
DT450-5	50	+12V	0	4.2	4.2	1%	100 mV	1%	5%
DT450-6	50	+24V	0	2.3	2.3	1%	100 mV	1%	5%
DT450M-6	50	+24V	0	2.3	2.3	1%	100 mV	1%	5%
DT450-14	50	+48V	0	1.1	-	1%	250 mV	1%	5%
DT470-5	70	+12V	0	6.0	_	1%	100 mV	1%	5%
DT470-8	70	+15V	0	5.0	_	1%	100 mV	1%	5%
DT470-3	70	+18V	0	4.0	_	1%	100 mV	1%	5%
DT470-6	70	+24V	0	3.2	-	1%	150 mV	1%	5%
DT470-14	70	+48V	0	1.5	_	1%	200 mV	1%	5%

Note: Contact factory for Safety Agency Approved status.

- Each output can provide up to peak load temporarily. Continuous staying in more than rated load is not allowed. 1.
- 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 outul load from 60% rated load.
- The ripple and noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47 µF capacitor at rated lead and 5. nominal line.
- Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to 95% output voltage at rated load and nomial line.
- Efficiency is measured at rated load.

*RS-Remote Sense

*M-Medical Application



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DESK TOP SERIES

