



ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

VTD-SC / VTD-SD

Output Characteristic	Unit	Models				
		VTE05SCx / SD	VTE12SCx / SD	VTE15SCx / SD	VTE24SCx / SD	VTE48SCx / SD
Output Voltage	V	5	12	15	24	48
Output Current Vin:12VDC Vin: 24,48 VDC Vin: 110 VDC	A	27	13	10	6.5	3.3
	A	30	14	11	7.0	3.5
	A	30	14	11	7.0	4.2
Voltage Adjust Range	V	+/-10% of Rated Output Voltage(at no load within input range)				
Ripple Noise(max) *3	mVpp	100	170	200	290	530
Rise up time	mS	200mS(maximum) at 25°C and rated input/output (Vin: 110 500mS)				
Hold up time	mS	Not specified (Vin: 110 10mS(typical) at 25°C and rated input/output)				
Regulation						
a. Line Regulation (max)	mV	25 (Vin=110 40)	60 (Vin=110 96)	75 (Vin=110 120)	120 (Vin=110 192)	240 (Vin=110 384)
b. Load Regulation (max)	mV	30 (Vin=110 45)	72 Vin=110 108)	90 (Vin=110 135)	144 (Vin=110 216)	288 (Vin=110 432)
c. Temperature Coefficient *4	°C	0.01%/°C (Vin=110 0.03%/°C)				
d. Drift(maximum) *5	mV	40	75	90	135	255
e. Dynamic Load Regulation (typ.) *6	mV	150 (Vin=24,48 100)	360 (Vin=24,48 120)	450 (Vin=24,48 300)	720 (Vin=24,48 480)	1440 (Vin=24,48 960)
f. Recovery Time *6	mS	0.5mS				

Conditions:

*1 at cold start

*2 at rated input/output

*3 measured by a bayonet probe at the output connector at a 0 to 100MHz bandwidth

*4 at 0 to +50°C

*5 for 7hour period after 1hour warm-up at 25°C and rated input/output

*6 when output current changed between 25% and 75% of rated output current rapidly at rated input

Environmental Specification	
Operating Temperature	0 to +50°C
Operating Humidity	85%RH (non-condensing)
Storage Temperature	-20 to +85°C
Storage Humidity	-
Withstanding Voltage	Primary-Secondary AC1,500Vfor 1minute (Vin=110 2000) Primary-Frame Ground AC1,500V for 1minute (Vin=110 2000) Secondary-Frame Ground AC500V for 1minute
Isolation Resistance	Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation tester
Vibration	5-10Hz:10mm double amplitude,10-55Hz:19.6m/s ² ,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)
Shock	294m/s ²
Cooling	Convection
Functions	
Over current Protection	Current Limiting with automatic recovery
Over voltage Protection	Output shutdown
Remote Sense	not available
Remote On/Off	not available
Reverse Voltage Protection	not available (Vin=110 by internal bridge diode)
Line Conduction Noise	Not specified
Weight [g] (typical)	1.4 kg
Dimension [mm]	70W × 200L × 97H



ETA USA

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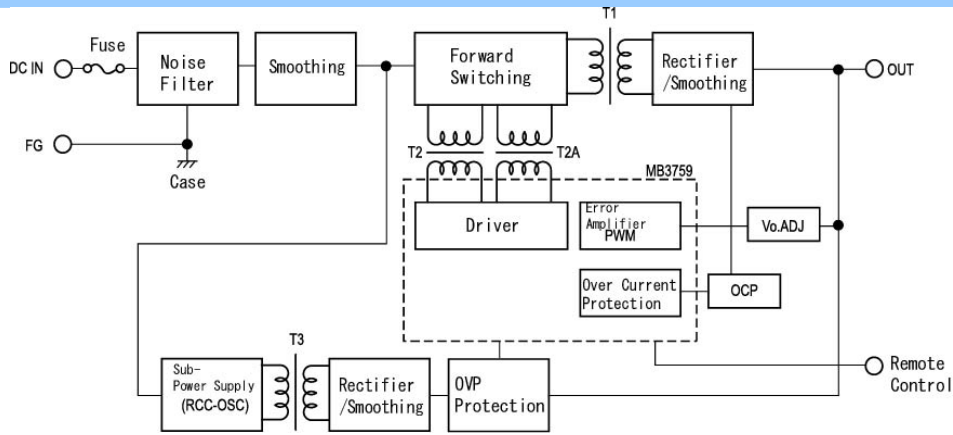
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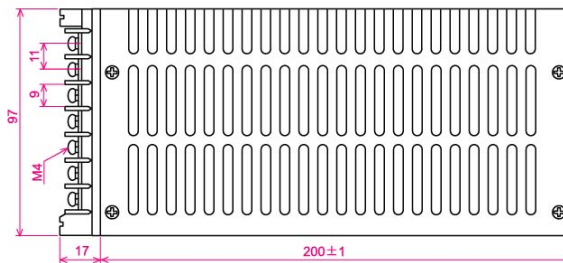
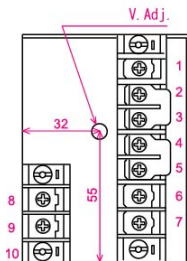
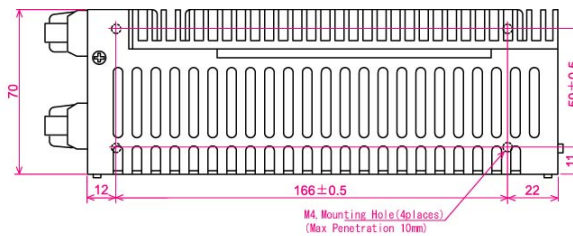
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BLOCK DIAGRAM

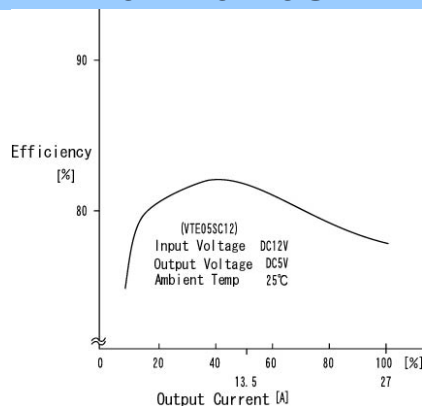


DIMENSION DIAGRAM (mm)

- Pin Assignments
- 1 +V out
 - 2 +V out
 - 3 +S
 - 4 -S
 - 5 0V out
 - 6 0V out
 - 7 RC
 - 8 DC in +V
 - 9 DC in 0V
 - 10 FG



EFFICIENCY CURVE



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