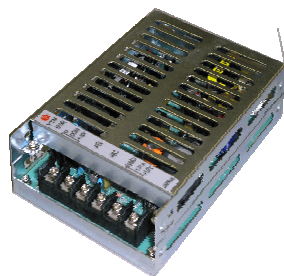




## VTD-SC/VTD-SD

## 100W



### FEATURES

- Variety of Models
- Chassis mount type
- Compact and High Efficiency
- **Isolated Power Supply**

MODEL/CHANNEL		Unit	VTD05-SC12	VTD12-SC12	VTD15-SC12	VTD24-SC12	VTD48-SC12
<b>OUTPUT (Single)</b>	Output Voltage	Vdc	5	12	15	24	48
	Output Current 12VDC	A	18	9	7	4.5	2.2
MODEL/CHANNEL		Unit	VTD05-SC24	VTD12-SC24	VTD15-SC24	VTD24-SC24	VTD48-SC/SD
<b>OUTPUT (Single)</b>	Output Voltage	Vdc	5	12	15	24	48
	Output Current 24VDC	A	20	9	7	5	2
MODEL/CHANNEL		Unit	VTD05-SC48	VTD12-SC48	VTD15-SC48	VTD24-SC48	VTD48-SC48
<b>OUTPUT (Single)</b>	Output Voltage	Vdc	5	12	15	24	48
	Output Current 48VDC	A	20	9	7	5	2
MODEL/CHANNEL		Unit	VTD05-SD	VTD12-SD	VTD15-SD	VTD24-SD	VTD48-SD
	Output Voltage	Vdc	5	12	15	24	48
	Output Current 110VDC	A	20	9	7	5	2
	Line Regulation	mV	40	96	120	192	384
	Load Regulation	mVp	45	108	135	216	432
	Ripple and Noise	mVp	100	170	200	290	530
	Voltage Adjustment Range	-	+/-10% of Rated Output Voltage(at no load within input range)				
	Rise Time	-	500mS(maximum) at 25°C and rated input/output(Vin=24,48,110 200mS)				
	Temp. Coefficient	°C	0.03%/°C				
	Drift	mV	40	75	90	135	255
	Dynamic Load Regulation	mV	150	360	450	720	1440
	Recovery Time	mS	0.5mS				
MODEL/CHANNEL		Unit	VTD05-SC/SD	VTD12-SC/SD	VTD15-SC/SD	VTD24-SC/SD	VTD48-SC/SD
<b>INPUT</b>	Input Voltage <b>12V</b>	Vdc	DC 12V				
	Input Voltage Range	Vdc	DC 9.2V-16V				
	Input Current	A	9.49	11.11	10.54	11.69	11.14
	Efficiency	%	79	81	83	85	85
	Ref. MTBF	H	470,000				
	Switching Frequency	kHz	91 Fix.				





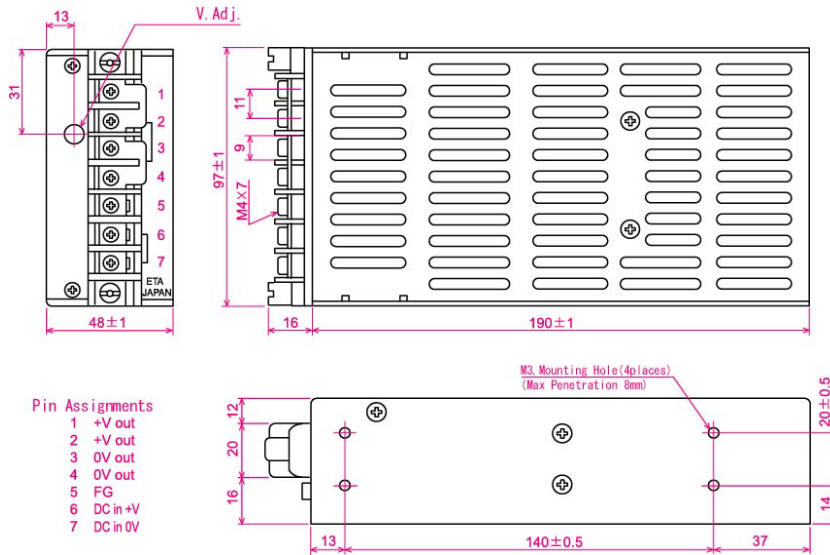
MODEL/CHANNEL		Unit	VTD05-SC24	VTD12-SC24	VTD15-SC24	VTD24-SC24	VTD48-SC24
	Input Voltage <b>24V</b>	Vdc	DC 24V				
	Input Voltage Range	Vdc	DC 19-32V				
	Input Current	A	5.27	5.79	5.27	5.95	4.6
	Efficiency	%	79	82	83	84	87
	Ref. MTBF	H	700,000				
	Switching Frequency	kHz	59 Fix.				
MODEL/CHANNEL		Unit	VTD05-SC48	VTD12-SC48	VTD15-SC48	VTD24-SC48	VTD48-SC48
	Input Voltage <b>48V</b>	Vdc	DC 48V				
	Input Voltage Range	Vdc	DC 38-63V				
	Input Current	A	2.64	2.74	2.64	2.98	2.3
	Efficiency	%	81	84	85	86	89
	Ref. MTBF	H	700,000				
	Switching Frequency	kHz	74 Fix.				
MODEL/CHANNEL		Unit	VTD05-SD	VTD12-SD	VTD15-SD	VTD24-SD	VTD48-SD
	Input Voltage <b>110V</b>	Vdc	DC 110V				
	Input Voltage Range	Vdc	DC 85-140V				
	Input Current	A	1.14	1.18	1.12	1.25	1.09
	Efficiency	%	80	83	85	87	88
	Ref. MTBF	H	500,000				
	Switching Frequency	kHz	160 Fix.				91 Fix.
MODEL/CHANNEL		Unit					
<b>Environment</b>	Operating Temperature	°C	0 to +50°C				
	Operating Humidity	%	85%RH(non-condensing)				
	Storage Temperature	°C	-20 to +85°C				
	Withstand Voltage Primary-Secondary	%	Primary-Secondary AC1,500V for 1minute (Vin=110 2000)				
	Primary-Frame Ground	%	Primary-Frame Ground AC1,500V for 1minute(Vin=110 2000)				
	Secondary-Frame Ground	-	Secondary-Frame Ground AC500V for 1minute				
	Isolation Resistance Primary - Secondary - Case	-	Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation tester				
	Shock	-	294m/s <sup>2</sup>				
	Cooling	-	Convection				
	Vibration	-	5-10Hz:10mm double amplitude,10-55Hz:19.6m/s <sup>2</sup> ,20minutes period for 60minutes each along X,Y,Z axes(non-operating)				
<b>Protection</b>	Over Current Protection	A	Current Limiting with automatic recovery				
	Over Voltage Protection	-	Output shutdown				
<b>Dimension</b>	Size(WxHxD) / Weight	mm/g	48Wx190Lx97H/800g				





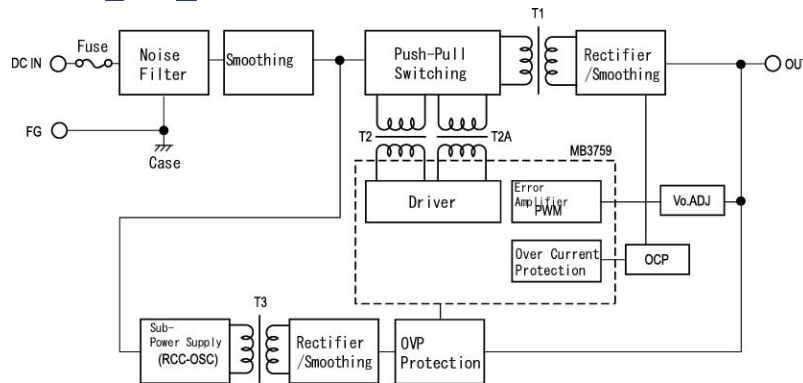
## Dimension Diagram (mm)

100W



## Block Diagram

100W



## Efficiency Curve

## OCP Curve

