

25 WATT AC-DC CONVERTER

VTA-00A SERIES

Specifications<AC/DC>	Model												
	VTA**A 25,30WATTS /3 OUTPUTS						VTA01A		VTA01A-B		VTA03A		VTA04A
Input Characteristic													
Input Voltage	AC100V(DC130V)												
Input Range	AC90-132V(DC110-175V)												
Input Frequency	50/60Hz												
Input Frequency Range	47-440Hz												
Phase	Single												
Inrush Current *1	25A(maximum) at rated input/output												
Efficiency [%] (typical) *2	75						76						
Output Characteristic													
Output Voltage [V]	5	+12	-12	+12	+5	-12	5	+12	-5	5	+15	-15	
Output Current [A]													
at horizontal mount 25W	2.8	0.5	0.4	1.5	0.7	0.25	2.8	0.5	0.5	2.8	0.36	0.36	
at vertical mount 30W	3.0	0.75	0.5	1.7	0.8	0.30	3.0	0.75	0.75	3.0	0.5	0.5	
Voltage Adjust Range	V1:+5% of Rated Output Voltage(at no load within input range) V2,V3:fixed with tolerance of +/-3.5% Rate Output Voltage(at no load within input range)												
Ripple and Noise [mVp-p](maximum) *3	100	170	170	170	100	170	100	170	100	100	200	200	
Regulation													
a.Statistic Line Regulation [mV](maximum)	35	84	84	84	35	84	35	84	35	35	105	105	
b.Statistic Load Regulation [mV](maximum)	50	120	120	120	50	120	50	120	50	50	150	150	
c.Temperature Coefficient *4	0.03%/°C												
d.Drift[mV](maximum) *5	40	75	75	75	40	75	40	75	40	40	90	90	
e.Dynamic Load Regulation [mV](typical) *6	150	360	360	360	150	360	150	360	150	150	450	450	
f.Recovery Time *6	0.5mS(typical)												
Rise up time	200mS(maximum) at 25°C and rated input/output												
Hold up time	20mS(minimum) at 25W/15mS(minimum) at 30W both at 25°C and rated input/output												
Functions													
Overcurrent Protection	Current Limiting with automatic recovery												
Overvoltage Protection	Zener diode clamping												
Remote Sense	not available												
Remote On/Off	not available												
Environmental													
Operating Temperature	0 to +50°C												
Operating Humidity	85%RH(non-condensing)												
Storage Temperature	-20 to +85°C												
Storage Humidity	30 to 85%RH(non-condensing)												
Withstanding Voltage	Primary-Secondary AC1,500Vfor 1minute Primary-Frame Ground AC1,500V for 1minute 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												
? Leakage Current	1.0mA(maximum)												
? Line Conduction Noise	Not specified												
? Safety	-												
? Weight (typical)	380g												
? MTBF [H]	510,000												
? Switching Frequency[kHz](typical)	43												

Conditions:

*1 at cold start

*2 at DC130V and rated 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 from 25% to 75% of rated output current rapidly at AC100V input



ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

ETA-USA Tel: 408-778-2793 Fax: 408-779-2753 e-mail: sales@eta-usa.com