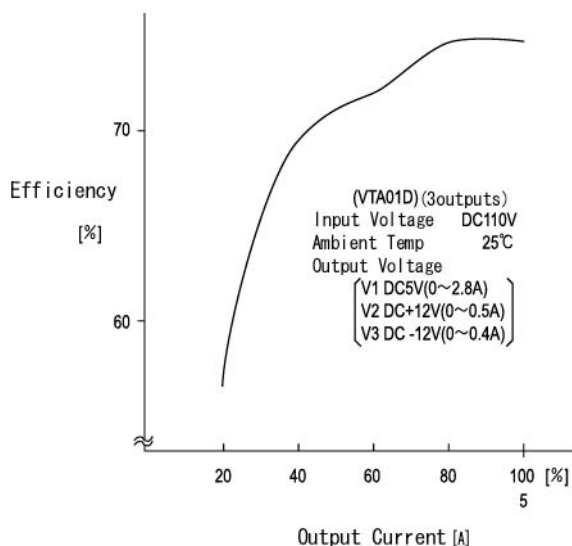


25 WATT DC-DC CONVERTER

VTA-00D SERIES

Specifications	Model			
VTA**D 25WATTS,30WATTS/3 OUTPUTS	VTA01D	VTA01D-B	VTA03D	VTA04D
Input Characteristic				
Input Voltage	DC110V			
Input Range	DC85-140V			
Inrush Current *1	20A(maximum)			
Efficiency [%] (typical) *2	75	77	73	75

Efficiency Curve



VTA**00D Specification

Specifications	Model										
VTA**D 25WATTS,30WATTS/3 OUTPUTS	VTA01D			VTA01D-B			VTA03D			VTA04D	
Output Characteristic											
Output Voltage [V]	5	+12	-12	+12	+5	-12	5	+12	-5	5	+15
Output Current [A]											
25W at horizontal mount	2.8	0.5	0.4	1.5	0.7	0.25	2.8	0.5	0.5	2.8	0.36
30W at vertical mount	3.0	0.75	0.5	1.7	0.8	0.3	3.0	0.75	0.75	3.0	0.5
Voltage Adjust Range	V1: +/-5%(maximum) of Rated Output Voltage at 25°C, rated input and no load										
	V2,V3:fixed with tolerance +/-3.5% of Rated Output Voltage at 25°C, rated input and no load										
Ripple and Noise [mVp-p](maximum) *3	100	170	170	170	100	170	100	170	100	100	200
Regulation											
a.Statistic Line Regulation [mV](maximum)	40	96	96	96	40	96	40	96	40	40	120
b.Statistic Load Regulation [mV](maximum)	50	120	120	120	50	120	50	120	50	50	150
c.Temperature Coefficient *4	0.03%/°C										
d.Drift[mV](maximum) *5	40	75	75	75	40	75	40	75	40	40	90
e.Dynamic Load Regulation [mV](typical) *6	150	360	360	360	150	360	150	360	150	150	450
f.Recovery Time *6	0.5mS(typical)										
Rise up time	200mS(maximum) at 25°C and rated input/output										
Hold up time	10mS(minimum) 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										
Reverse Voltage Protection	by internal bridge diode										
Environmental											
Operating Temperature	0 to +50°C										
Operating Humidity	85%RH(non-condensing)										
Storage Temperature	-20 to +85°C										
Storage Humidity	-										
Withstanding Voltage	Primary-Secondary AC2,000Vfor 1minute										
	Primary-Frame Ground AC2,000V 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-op)										
Shock	294m/s ²										
Cooling	Convection										
? Line Conduction Noise	Not specified										
? Safety	-										
? Weight (typical)	390g										
? MTBF [H]	500,000										
? Switching Frequency[kHz](typical)	43 Fix.										

Conditions:

*1 at cold start

*2 at DC110V 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 between 25% and 75% of rated output current rapidly at rated input


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OCP Curve

