

50 WATT AC-DC CONVERTER VTB-SB Series

General Description

VT is the basic series of switching power supplies manufactured by ETA Electric Industry. 188 different models are available. Output power ranges from 10W to 600W. 50 models have dual outputs; 33 models are designed with triple outputs. Input selectable ("SZ") models conform to local power conditions.



Features

Compact

Isolated outputs

High Performance and Reliability

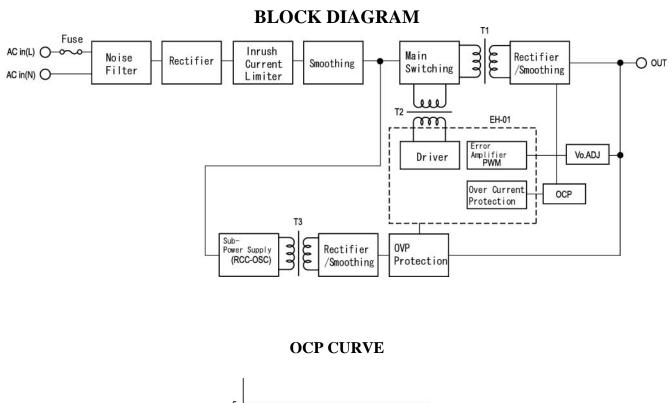
Excellent for equipment/din rail applications

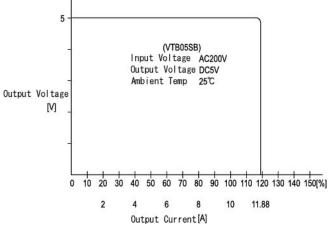
Specifications <ac dc=""></ac>	Model								
VTB**SB	VTB05SB	VTB12SB	VTB15SB	VTB24SB	VTB48SB				
50WATTS/SINGLE OUTPUT									
Input Characteristic									
Input Voltage	AC200V(DC260V)								
Input Range	AC180-264V(DC220-350V)								
Input Frequency	50/60Hz								
Input Frequency Range	47 -440Hz								
Phase	Single								
Inrush Current *1	20A(maximum) at rated input/output								
Efficiency [%] (typical) *2	78	79	81	84	84				



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Specifications <ac dc=""></ac>		Model						
VTB**SB 50WATTS/SINGLE OUTPUT	VTB05SB	VTB12SB	VTB15SB	VTB24SB	VTB48SB			
Output Characteristic								
Output Voltage [V]	5	12	15	24	48			
Output Current [A]	10	4.3	3.4	2.5	1.0			
Voltage Adjust Range	+/-10% of Rated Output Voltage(at no load within input range)							
Ripple and Noise [mVp-p](maximum) *3	100	170	200	290	530			
Regulation								
a.Statistic Line Regulation [mV](maximum)	40	96	120	192	384			
b.Statistic Load Regulation [mV](maximum)	45	108	135	216	432			
c.Temperature Coefficient *4	0.03%/°C							
d.Drift[mV](maximum) *5	40	75	90	135	255			
e.Dynamic Load Regulation [mV](typical) *6	150	360	450	720	1440			
f.Recovery Time *6	0.5mS(typical)							
Rise up time	100mS(maximum) at 25°Cand rated input/output 300mS(maximum)							
Hold up time	20mS(minimum) at 25°Cand rated input/output							
Functions		(····				
Overcurrent Protection	Current Limiting with automatic recovery							
Overvoltage Protection	output shutdown							
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	Primary-Secondary AC2,500Vfor 1minute						
	Primary-Frame Ground AC2,500V for 1minute							
	Secondary-Frame Ground AC500V for 1 minute							
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)	410g							
MTBF [H]	770,000							
Switching Frequency[kHz](typical)	63							

Conditions: *1 at cold start

*2 at DC260V 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 AC200V input



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