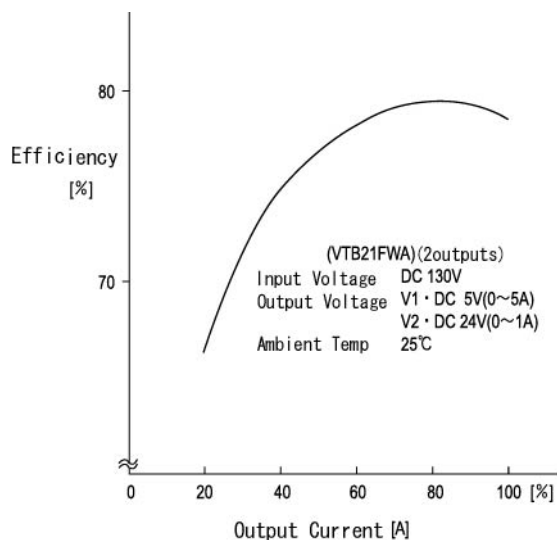


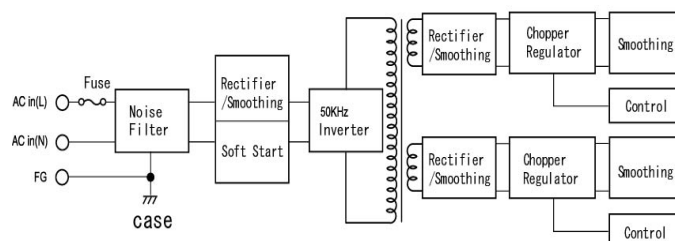
45 WATT AC-DC CONVERTER VTB-FWA

Specifications<AC/DC>	Model					
VTB**FWA 45,50WATTS /2 OUTPUTS	VTB21FWA	VTB21FWA-B	VTB22FWA	VTB22FWA-B	VTB23FWA	VTB24FWA
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	78	80	81	80	82	78

Efficiency Curve



Block Diagram



VTB**FWA Specification

Specifications<AC/DC>	Model											
VTB**FWA 45,50WATTS /2 OUTPUTS	VTB21FWA		VTB21FWA-B		VTB22FWA		VTB22FWA-B		VTB23FWA		VTB24FWA	
Output Characteristic												
Output Voltage [V]	5	24	24	5	12	12	15	15	5	12	5	12
Output Current [A]												
at horizontal mount 25W	5.0	0.85	1.5	1.5	2.0	1.7	3.0	0.8	1.7	1.3	5.0	1.7
at vertical mount 30W	5.0	1.0	1.8	1.5	2.0	2.0	3.3	0.8	1.7	1.7	5.0	2.0
Peak Current	-	1.7	2.5	-	3.5	-	4.8	-	-	-	-	3.5
Voltage Adjust Range	+/-5% of Rated Output Voltage(at no load within input range)											
Ripple and Noise [mVp-p](maximum) *3	100	290	290	100	170	170	170	170	200	200	100	170
Regulation												
a.Statistic Line Regulation [mV](maximum)	35	168	168	35	84	84	84	84	105	105	35	84
b.Statistic Load Regulation [mV](maximum)	50	240	240	50	120	120	120	120	150	150	50	120
c.Temperature Coefficient *4	0.03%/°C											
d.Drift[mV](maximum) *5	40	135	135	40	75	75	75	75	90	90	40	75
e.Dynamic Load Regulation [mV](typical) *6	150	720	720	150	360	360	360	360	450	450	150	360
f.Recovery Time *6	0.5mS(typical)											
Rise up time	200mS(maximum) at 25°C and rated input/output											
Hold up time	18mS(minimum) at 45W 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-o											
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

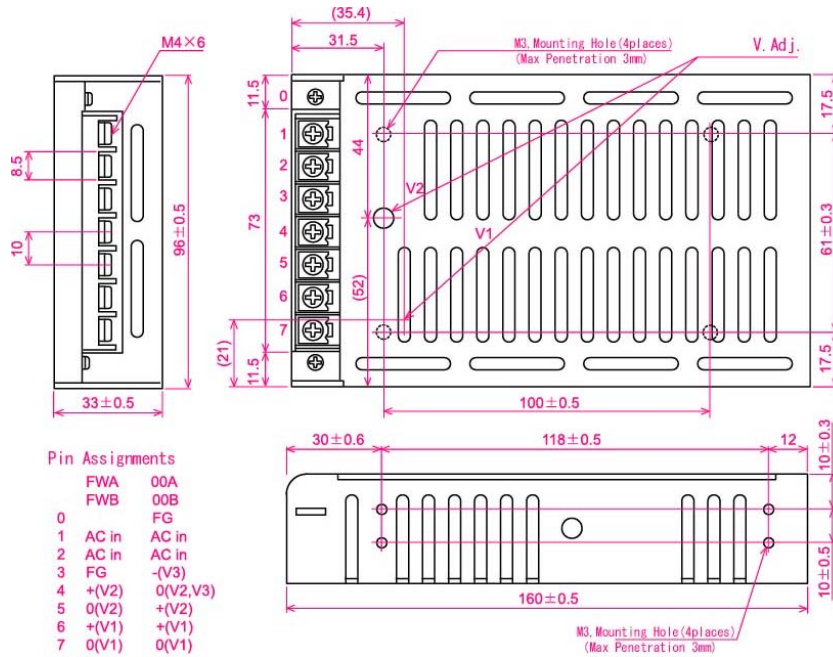
*6 when output current changed from 25% to 75% of rated output current rapidly at AC100V input


ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

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Dimension



OCP Curve

