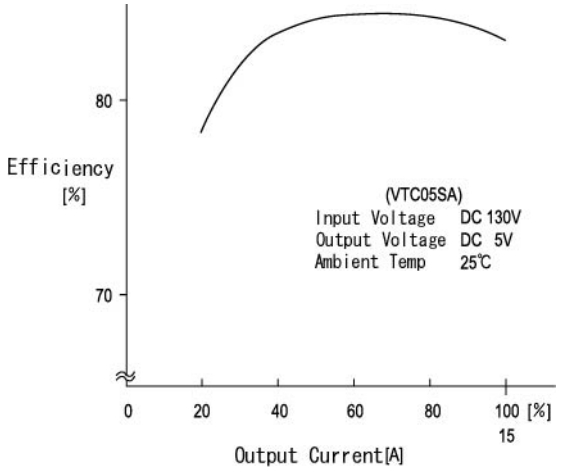
75 WATT AC-DC CONVERTER

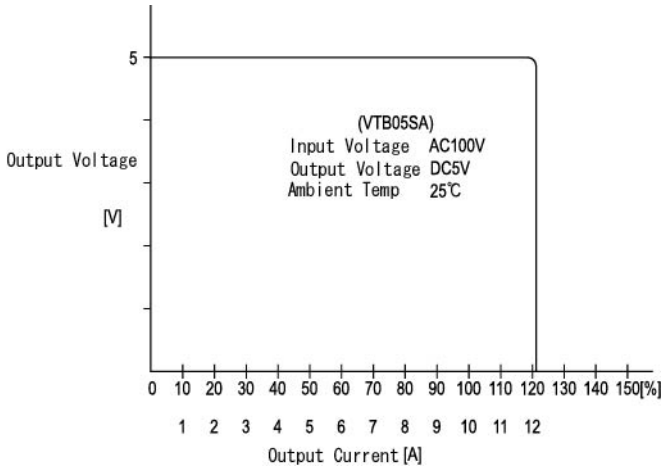
VTC-SA SERIES

Specifications<AC/DC>	Model				
VTC**SA 75WATTS/SINGLE OUTPUT	VTC05SA	VTC12SA	VTC15SA	VTC24SA	VTC48SA
Input Characteristic					
Input Voltage	AC100V(DC130V)				
Input Range	AC90-132V(DC110-175V)			AC85-132V	AC90-132V
Input Frequency	50/60Hz				
Input Frequency Range	47 -440Hz				
Phase	Single				
Inrush Current *1	20A(maximum) at rated input/output				
Efficiency [%] (typical) *2	80	83	84	85	87

Efficiency Curve



OCP Curves



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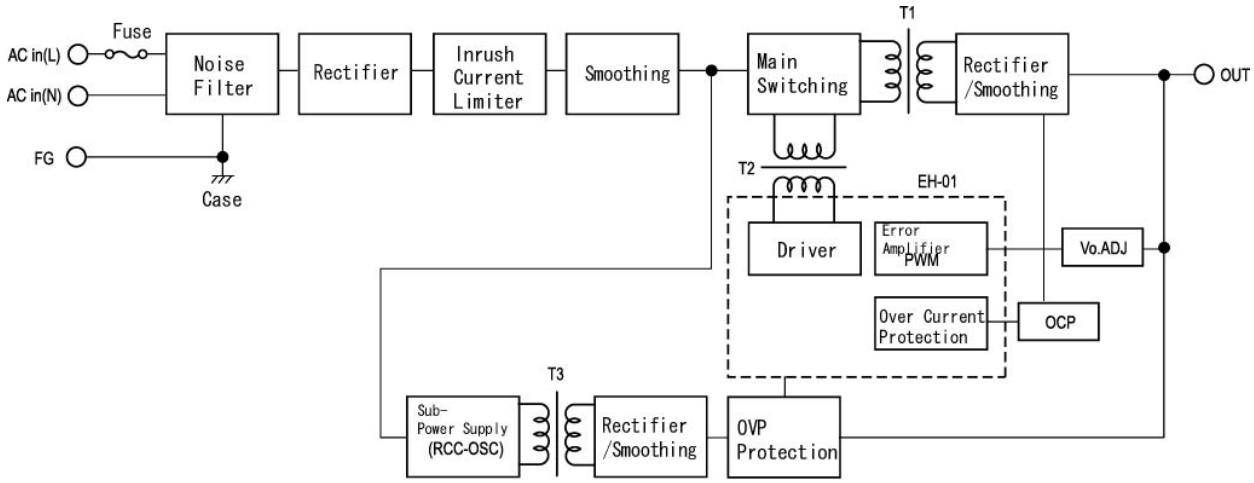
VTC**SA Specification

Specifications<AC/DC>	Model				
VTC**SA 75WATTS/SINGLE OUTPUT	VTC05SA	VTC12SA	VTC15SA	VTC24SA	VTC48SA
Output Characteristic					
Output Voltage [V]	5	12	15	24	48
Output Current [A]	15.0	6.3	5.0	3.2	1.5
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%/℃				
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℃ and rated input/output				300mS(maximum)
Hold up time	20mS(minimum) at 25℃ and 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℃				
Operating Humidity	85%RH(non-condensing)				
Storage Temperature	-20 to +85℃				
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)	540g				
? MTBF [H]	730,000				
? Switching Frequency[kHz](typical)	77				

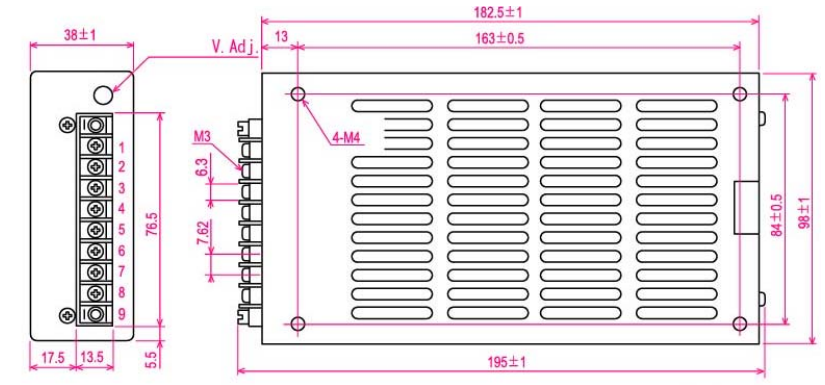
Conditions:
*1 at cold start
*2 at DC130V and rated output
*3 measured by a bayonet probe at the output connector at a 0 to 100MHz bandwidth
*4 at 0 to +50℃
*5 for 7hour period after 1hour warm-up at 25℃ and rated input/output
*6 when output current changed from 25% to 75% of rated output current rapidly at AC100V input

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Block Diagram



Dimension Diagram(mm)



Pin Assignments

	-SA,-SB	SZ
1	+V out	+V out
2	+V out	+V out
3	-V out	-V out
4	-Vout	-V out
5	LFG	AC in
6	AC in	AC in
7	AC in	Input select
8	FG	Input select
9		FG

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