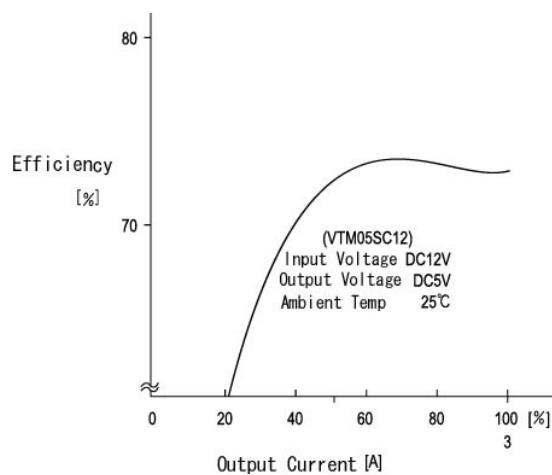


15 WATT DC-DC CONVERTER

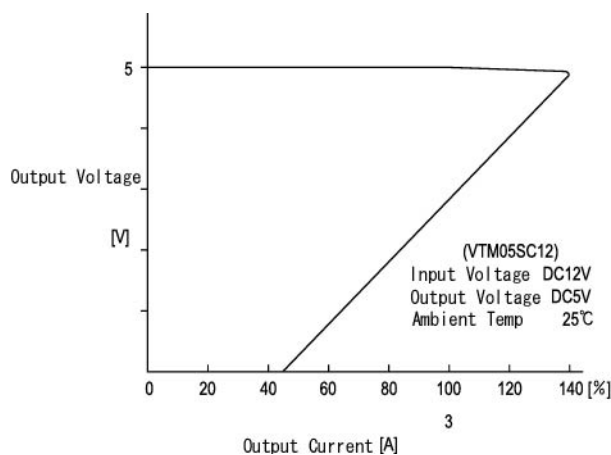
VTM-SC12 SERIES

Specifications	Model			
VTM**SC12 15WATTS/1 OUTPUT	VTM05SC12	VTM12SC12	VTM15SC12	VTM24SC12
Input Characteristic				
Input Voltage	DC12V			
Input Range	DC9.2-16V			
Inrush Current	Not specified			
Input Current at rated output [A](typical)	1.79	1.71	1.79	1.77
Efficiency [%] (typical) *1	70	70	70	70

Efficiency Curve



OCP Curve



Specifications				
VTM**SC12 15WATTS/1 OUTPUT	VTM05SC12	VTM12SC12	VTM15SC12	VTM24SC12
OutputCharacteristic				
Output Voltage [V]	5	12	15	24
Output Current [A]	3.0	1.2	1.0	0.62
Voltage Adjust Range	+/-5% of Rated Output Voltage(at no load within input range)			
Ripple and Noise [mVp-p](maximum) *2	100	170	200	290
Regulation				
a.Statistic Line Regulation [mV](maximum)	40	96	120	192
b.Statistic Load Regulation [mV](maximum)	45	108	135	216
c.Temperature Coefficient *3	0.03%/°C			
d.Drift[mV](maximum) *4	40	75	90	135
e.Dynamic Load Regulation [mV](typical)	Not specified			
f.Recovery Time	Not specified			
Rise up time	200mS(maximum) at 25°C and rated input/output			
Hold up time	Not specified			
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 fuse			
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 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			
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			
? Line Conduction Noise	Not specified			
? Safety	-			
? Weight (typical)	250g			
? MTBF [H]	900,000			
? Switching Frequency[kHz](typical)	41 Fix.	41 Fix.	41 Fix.	41 Fix.

Conditions:

*1 at DC12V input and rated output

*2 measured by a bayonet probe at the output connector at a 0 to 100MHz bandwidth

*3 at 0 to +50°C

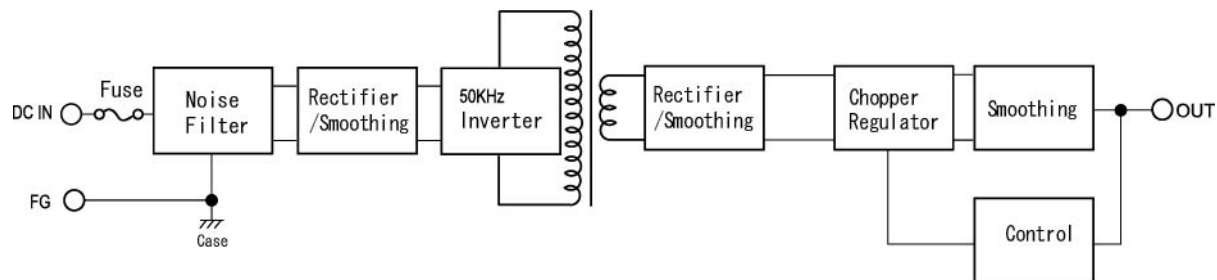
*4 for 7hour period after 1hour warm-up at 25°C and rated input/output


ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

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Block Diagram



Dimension (mm)

