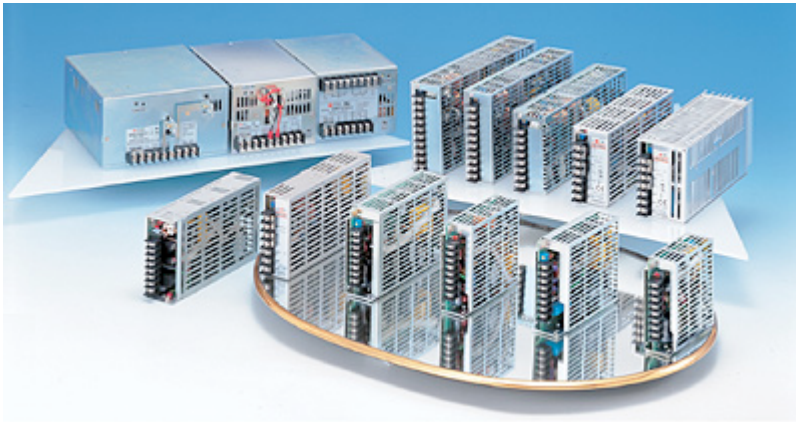


30 WATT AC-DC CONVERTER

WRT-00X Series 3 CHANNEL



Features

1. Universal input 85-264VAC
2. EMI: meets EN 55022/B, FCC/B
3. Compact size
4. High efficiency and reliability
5. Output voltage adjustable
6. Over voltage protection

General Description

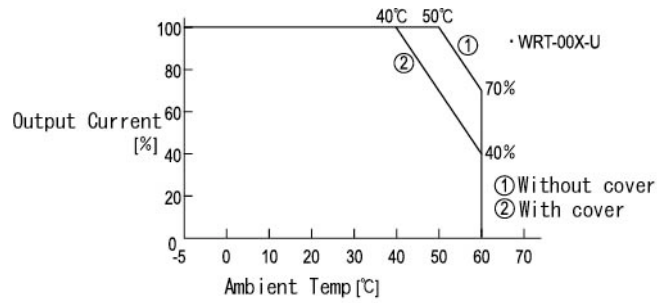
Universal or auto-ranging inputs for world wide use. Output power from 15 to 600 watts. Up to 4 outputs available. Approved to international safety standards.

**Dimensions: 33.5Wx98.5Lx97H
(400g)**



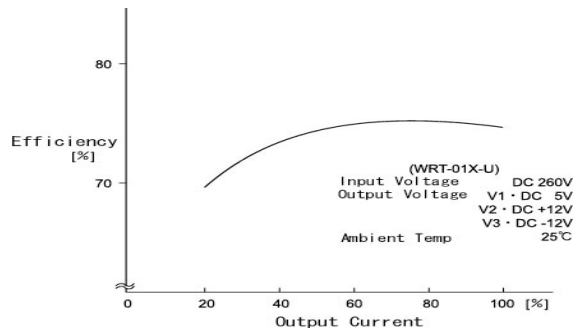
Specifications<AC/DC>	Model		
WRT**X-U	WRT01X	WRT03X	WRT04X
30WATTS/3 OUTPUTS			
Input Characteristic			
Input Voltage	AC115-230V		
Input Current	0.73A		
Input Range	AC85-264V(DC110-350V)		
Input Frequency	50/60Hz		
Input Frequency Range	47-440Hz		
Phase	Single		
Inrush Current *1	30A(maximum) at AC115/60A(maximum) at AC230V		
Efficiency [%] (typical) *2	75	66	73

DERATING CURVE



※For safety specification, contact ETA Sales Representative

EFFICIENCY CURVE



Specifications <AC/DC>	Model									
WRT**X-U	WRT01X			WRT03X			WRT04X			
30WATTS/3 OUTPUTS										
Output Characteristic										
Output Voltage [V]	5	+12	-12	5	+12	-5	5	+15	-15	
Output Current [A]	0.5-3.0	1.2	0.3	0.5-3.0	1.2	0.3	0.5-3.0	0.5	0.5	
Voltage Adjust Range	V1:+3%/-0% of Rated Output Voltage(at no load within the input range) V2,V3:fixed with tolerance of +/-4%(at no load within the input range)									
Ripple and Noise [mVp-p](maximum) *3	100	170	170	100	170	100	100	200	200	
Regulation										
a.Statistic Line Regulation [mV](maximum)	25	60	60	25	60	25	25	75	75	
b.Statistic Load Regulation [mV](maximum)	50	120	120	50	120	50	50	150	150	
c.Temperature Coefficient *4	0.03%/?									
d.Drift[mV](maximum) *5	40	75	75	40	75	40	40	90	90	
e.Dynamic Load Regulation [mV](typical) *6	not specified									
f.Recovery Time *6	not specified									
Rise up time	200mS(maximum) at 25? and rated input/output									
Hold up time	20mS(typical) at 25? and rated input/output									
Functions										
Overcurrent Protection of Rated Output Current[A]	?110%	V1:Current Limiting with automatic recovery V2,V3:by the regulator I.C's characteristics								
		3.3	-	-	3.3	-	-	3.3	-	
Overvoltage Protection of Rated Output Voltage[V]	?115%	V1:Output shutdown (to reset,leave 1 minute after shut-off) V2,V3:not available								
		5.75	-	-	5.75	-	-	5.75	-	
Remote Sense		not available								
Remote On/Off		not available								
Power Fail Detection		not available								
Parallel/series Operation		not available								
Environmental										
Operating Temperature *7		-5 to +40?/open frame type:-5 to +50?								
Operating Humidity		30 to 85%RH(non-condensing)								
Storage Temperature		-20 to +85?								
Storage Humidity		10 to 85%RH(non-condensing)								
Withstanding Voltage		Primary-Secondary AC3,000V for 1minute								
		Primary-Frame Ground AC2,500V 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		1mA(maximum) at 25?,rated input/output and rated input frequency								
Line Conducted Noise										
Safety		N/A								
Weight (typical)		430g/open frame type:410g								
MTBF [H]		600,000								
Switching Frequency[kHz](typical) *8		35		40				40		

Conditions:

*1 at cold start

*2 at DC260V input and rated output

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

*4 at -5 to +40?/open frame type:-5 to +50?

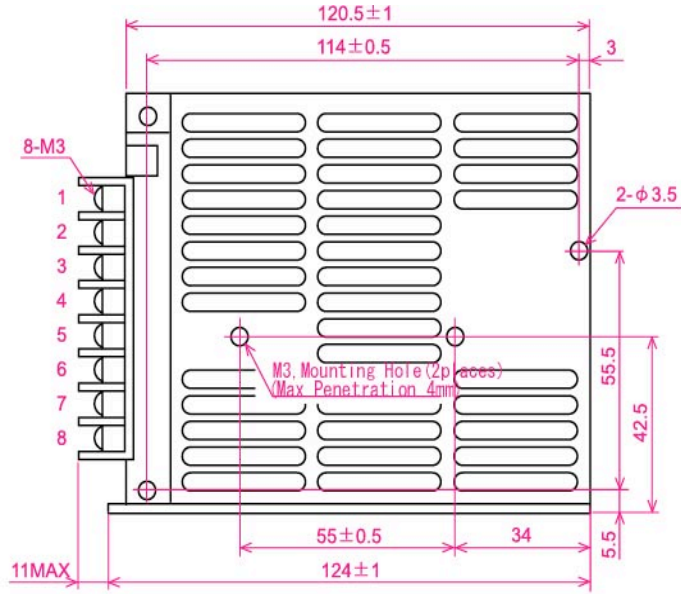
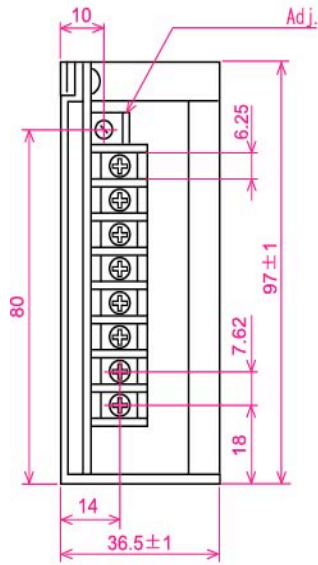
*5 for 7hour period after 1hour warm-up at 25? and rated input/output

*6 when output current changed from 25% to 75% of rated output current rapidly at AC115/230V input

*7 safety approved at 25?

*8 variable on input voltage and load conditions

DIMENSION DIAGRAM



Pin Assignments

	2 out	3 out
	-FWX-U	-OOX-U
1	V1	V1
2	G1	G1
3	V2	V2
4	G2	G2
5	N.C.	V3
6	FG	FG
7	AC in (L)	AC in (L)
8	AC in (N)	AC in (N)

