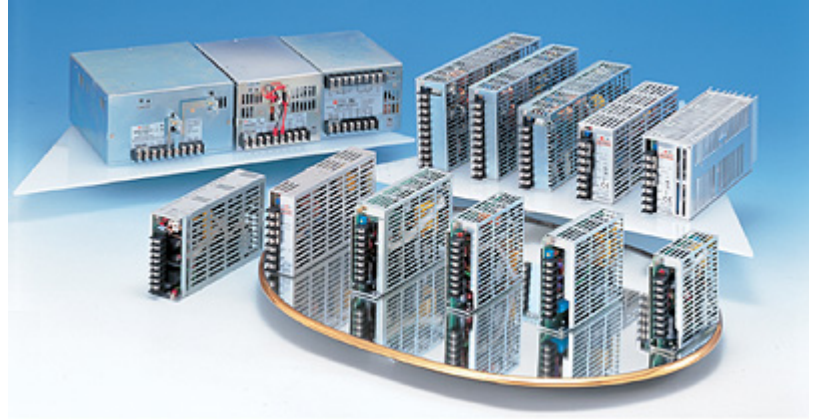


# 30 WATT AC-DC CONVERTER

## 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)**

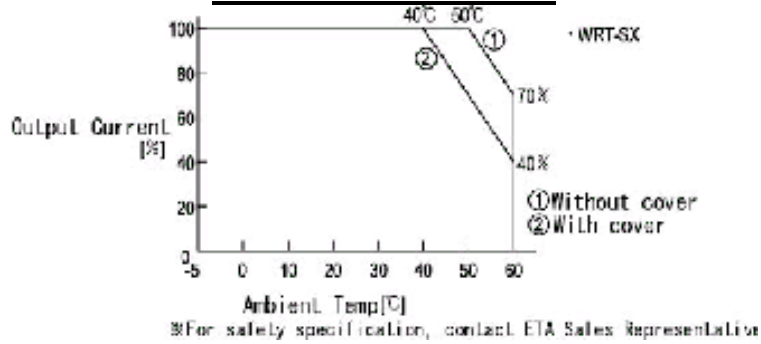


## Features

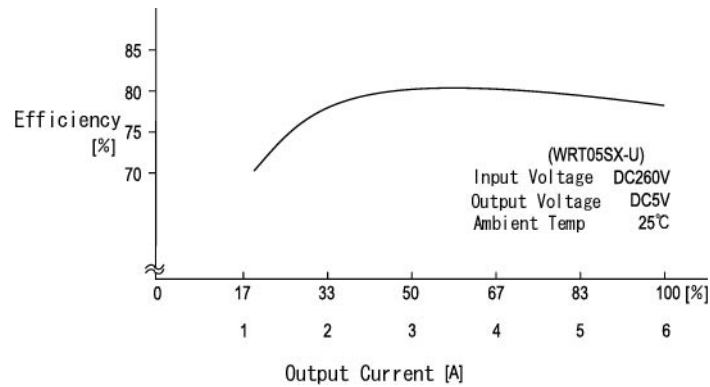
1. Universal input 85-264VAC
2. EMI: meets EN 55022/B, FCC/B
3. Compact size
4. High efficiency and reliability
5. Output voltage adjustable
6. Over voltage protection

Specifications <b>WRT**SX-U</b> 30WATTS/SINGLE	Model				
	WRT05SX-U	WRT12SX-U	WRT15SX-U	WRT24SX-U	WRT48SX-U
<b>Input Characteristic</b>					
Input Voltage	AC100-240V				
Input Current	0.68A				
Input Range	AC85-264V(DC110-350V)				
Input Frequency	50/60Hz				
Input Frequency Range	47-440Hz				
Phase	Single				
Inrush Current *1	25A(maximum)at AC100V				
Efficiency [%] (typical) *2	78	83	84	85	86

### DERATING CURVE



### EFFICIENCY CURVE



Output Characteristic <b>WRT**SX-U (30WATTS/SINGLE)</b>	Model					
	WRT05SX-U	WRT12SX-U	WRT15SX-U	WRT24SX-U	WRT48SX-U	
Output Voltage [V]	5	12	15	24	48	
Output Current [A]	6.0	2.5	2.0	1.4	0.7	
Voltage Adjust Range	+/- 5% of Rated Output Voltage(at no load within the input range)					
Ripple and Noise [mVp-p](maximum) *3	100	170	200	290	530	
Regulation						
a. Statistic Line Regulation [mV](maximum)	25	60	75	120	240	
b.Statistic Load Regulation [mV](maximum)	50	120	150	240	480	
c.Temperature Coefficient *4	0.03%/ °C					
d.Drift[mV](maximum) *5	40	75	90	135	255	
e.Dynamic Load Regulation [mV](typical) *6	not specified					
f.Recovery Time *6	not specified					
Rise up time	200mS(maximum) at 25 °C and rated input/output					
Hold up time	10mS(minimum) at 25 °C and rated input/output					
Functions						
Over current Protection	≥105% of	Current Limiting with automatic recovery				
		6.3	2.63	2.1	1.47	0.74
Over voltage Protection	≥115% of]	Output shutdown(to reset, leave 1minute after shut-off)				
Rated Output Voltage[V]		5.75	13.8	17.3	27.6	55.2
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 °C/open frame type: -5 to +50 °C					
Operating Humidity	30 to 85%RH(non-condensing)					
Storage Temperature	-20 to +85 °C					
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					
Vibration	5-10Hz:10mm double amplitude,10-55Hz:2G,19.6m/s <sup>2</sup> 20minutes' period for					
Shock	294m/s <sup>2</sup>					
Cooling	Convection					
Leakage Current	1mA(maximum) at 25 °C,rated input/output and rated input frequency					
Line Conducted Noise	Built to meet VDE0871 Class B Built to meet FCC Part15-B Class B					
Safety	UL: UL1950 CUL: CSA C22.2 No234(Level 3) VDE: EN60950,IEC950,VDE0805					
□ Weight (typical)	400g/open frame type:350g					
□ MTBF [H]	600,000					
□ Switching Frequency[kHz](typical) *8	24	24	24	32	32	

Conditions:

\*1 at cold start

\*2 at DC130V input and rated output

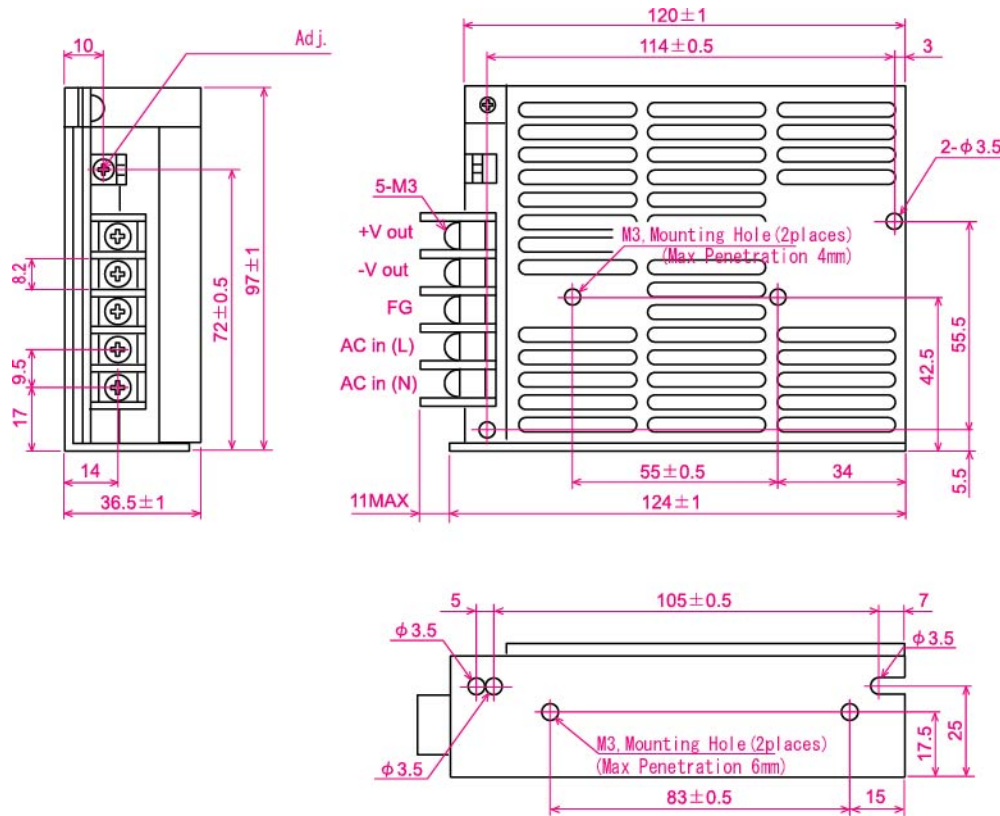
\*3 measured by a bayonet probe at output connector at a 0 to 100MHz bandwidth

\*4 at -5 to +40°C/open frame type:-5 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 AC115/230V input

## DIMENSION DIAGRAM



## OCP CURVE

