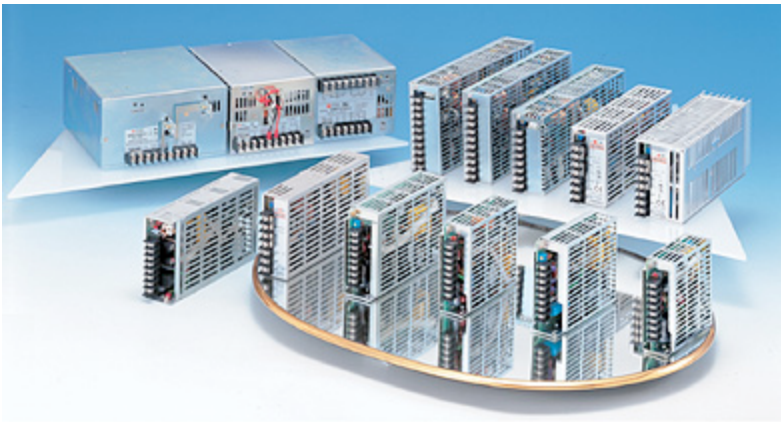


# 30 WATT AC-DC CONVERTER

## 2 CHANNEL WRT-FWX SERIES



### 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)**

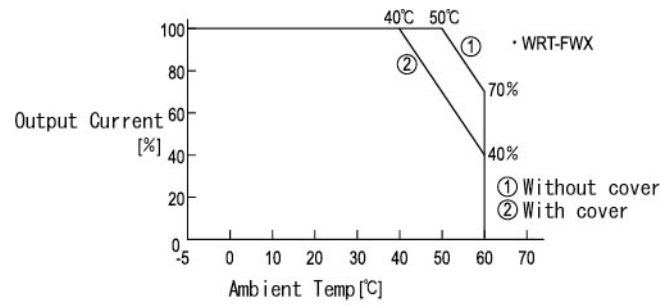


### Features

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

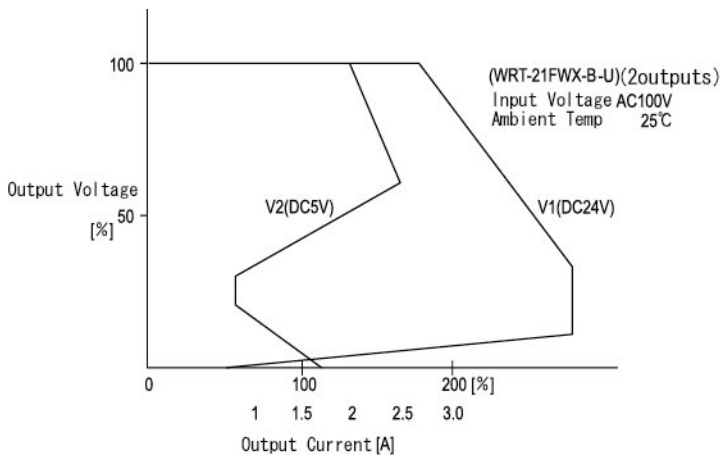
WRT**FWX-U 30WATTS/2 OUTPUTS	MODEL			
	WRT21FWX-B	WRT22FWX-B	WRT23FWX	WRT24FWX-B
<b>Input Characteristic</b>				
Input Voltage	AC115-230V			
Input Current	0.73A			
Input Range	AC85-264V(DC110-350V)			
Input Frequency	50/60Hz			
Input Frequency Range	47-440Hz			
Phase	Single			
Inrush Current *1	30A(maximum) at AC115/60A(maximum) at AC230V			
Efficiency [%] (typical) *2	78	79	79	76

## DERATING CURVE



※For safety specification, contact ETA Sales Representative

## OCP CURVE



Specifications <AC/DC>	Model							
	WRT**FWX-U 30WATTS/2 OUTPUTS		WRT21FWX-B	WRT22FWX-B	WRT23FWX	WRT24FWX	WRT25FWX	WRT26FWX
<b>Output Characteristic</b>								
Output Voltage [V]	24	5	12	12	15	15	12	5
Output Current [A]	0.2-1.0	1.5	0.4-2.0	0.8	0.2-1.0	1.0	0.2-2.0	1.0
Voltage Adjust Range	V1:+3%/-0% of Rated Output Voltage(at no load w ithin the input range) V2:fixed w ith tolerance of +/-4%(at no load w ithin the input range)							
Ripple and Noise [mVp-p](maximum) *3	290	100	170	170	200	200	170	100
Regulation								
a.Statistic Line Regulation [mV](maximum)	120	25	60	60	75	75	60	20
b.Statistic Load Regulation [mV](maximum)	240	100	120	120	150	150	120	50
c.Temperature Coefficient *4	0.03%/?							
d.Drift[mV](maximum) *5	135	40	75	75	90	90	75	40
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							
<b>Functions</b>								
Overcurrent Protection	V1:Current Limiting w ith automatic recovery V2:by the regulator I.C's characteristics							
?135% of Rated Output Current[A]	1.35		2.7		1.35		2.7	
Overvoltage Protection	V1:Output shutdown n(to reset,leave 1minute after shut-off) V2:not available							
?110% of Rated Output Voltage[V]	26.4		13.2		16.5		13.2	
Remote Sense	not available							
Remote On/Off	not available							
Power Fail Detection	not available							
Parallel/series Operation	not available							
<b>Environmental</b>								
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 <sup>2</sup> ,20minutes' period for 60minutes each along X,Y,Z axes(non-ope							
Shock	294m/s <sup>2</sup>							
Cooling	Convection							
? Leakage Current	1mA(maximum) at 25?,rated input/output and rated input frequency							
? Line Conducted Noise								
? Safety	N/A							
? Weight (typical)	400g [unit w ithout cover:380g]							
? MTBF [H]	510,000							
? Switching Frequency[kHz](typical) *8	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?

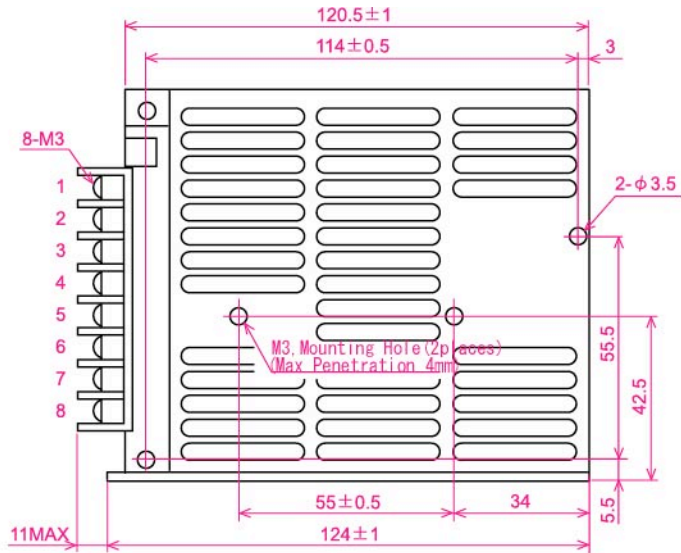
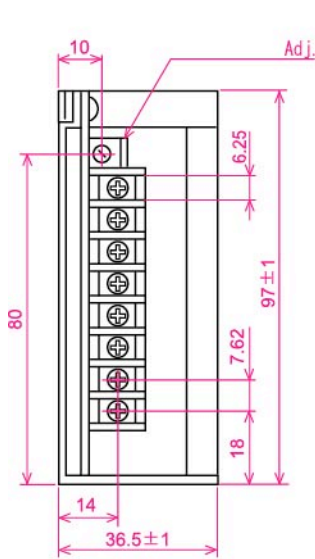
\*5 for 7hour period after 1hour warm-up at 25? and rated input/output

\*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)

