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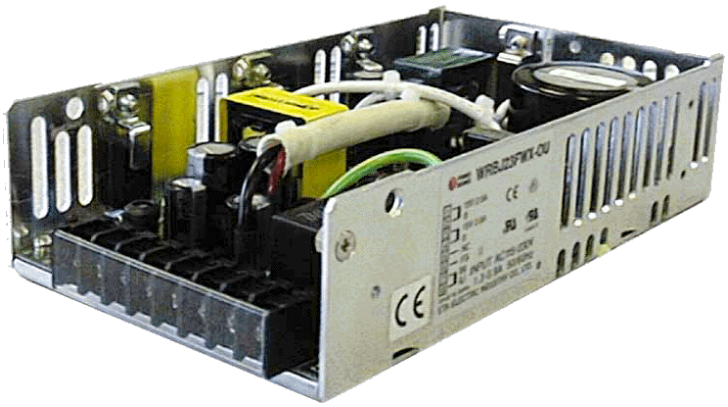
65 WATT AC-DC CONVERTER

2 CHANNELS WRBJ-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: 42.5Wx174Lx97H(mm) (570g)

RoHS

Options

N/A

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 WRBJ**FWX-U 65WATTS/2 OUTPUTS	Model					
	WRBJ21FWX	WRBJ21FWX-B	WRBJ22FWX-B	WRBJ23FWX	WRBJ24FWX	WRBJ24FWX-B
Input Characteristic						
Input Voltage	AC115-230V					
Input Current	1.3-0.9A					
Input Range	AC85-264V(DC110-350V)					
Input Frequency	50/60Hz					
Input Frequency Range	47-440Hz					
Phase	Single					
Inrush Current *1	34.5A(maximum) at AC115/69A(maximum) at AC230V					
Efficiency [%] (typical) *2	78	80	78	81	77	77

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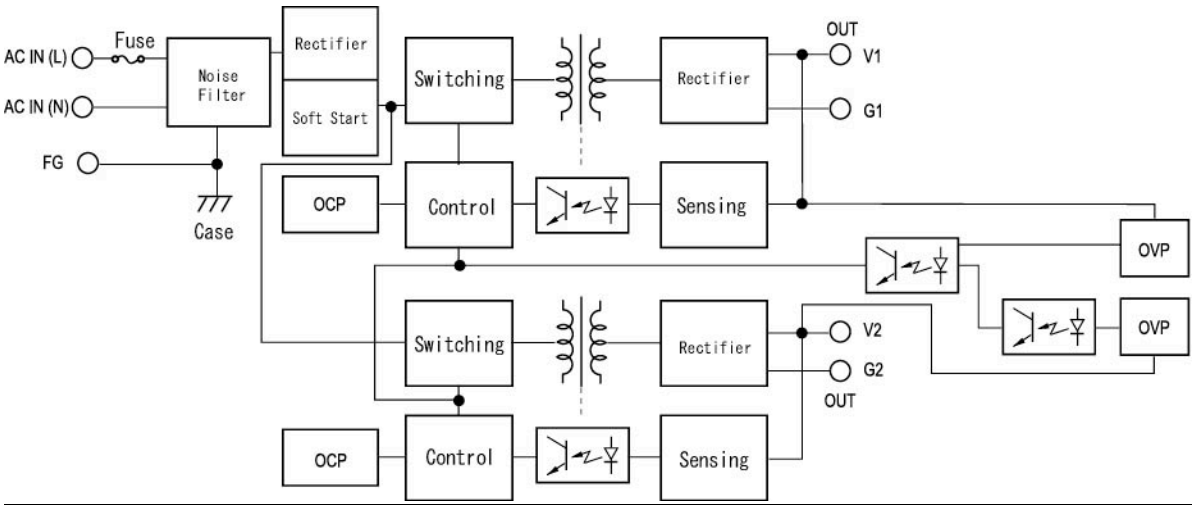
Output WRBJ**FWX-U(65WATTS/2 OUTPUTS)	Model											
	WRBJ21FWX		WRBJ21FWX-B		WRBJ22FWX-B		WRBJ23FWX		WRBJ24FWX		WRBJ24FWX-B	
Output Voltage [V]	5	24	24	5	12	12	15	15	5	12	12	5
Output Current [A]	7.5	1.1	1.8	4.5	3.5	2.0	2.5	2.0	7.5	2.3	3.5	4.5
		P1.5	P2.3		P4.5					P2.8	P4.5	
Voltage Adjust Range	+/-10% of Rated Output Voltage(at no load within the input range)											
Ripple and Noise[mVp-p](maximum) *3	100	290	290	100	170	170	200	200	100	170	170	100
Regulation												
a.StatisticLine Regulation [mV](maximum)	25	120	120	25	60	60	75	75	25	60	60	25
b.StatisticLoad Regulation [mV](maximum)	50	240	240	50	120	120	150	150	50	120	120	50
c.Temperature Coefficient *4	0.03%/°C											
d.Drift[mV](maximum) *5	40	135	135	40	75	75	90	90	40	75	75	40
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	12mS(minimum) at 25°C and rated input/output											
Functions												
Over current Protection	Current Limiting with automatic recovery											
≥110% of Rated Output Current[A]	8.25	≧Peak	≧Peak	4.95	≧Peak	2.2	2.75	2.2	8.25	≧Peak	≧Peak	4.95
Over voltage Protection	Output shutdown(to reset, leave 1minute after shut-off)											
≥110% of Rated Output Voltage[V]	5.5	26.4	26.4	5.5	13.2	13.2	16.5	16.5	5.5	13.2	13.2	5.5
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											
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 100MΩ(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°C, rated input/output and rated input frequency											
Line Conducted Noise												
Safety	N/A											
□ Weight (typical)	570g /open frame type:490g											
□ MTBF [H]	350,000											
□ Switching Frequency[kHz](typical) *8	60	40	60	40	80	50	50	40	60	40	80	40

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
*7 safety approved at 25°C
*8 variable on input voltage and load conditions

BLOCK DIAGRAM



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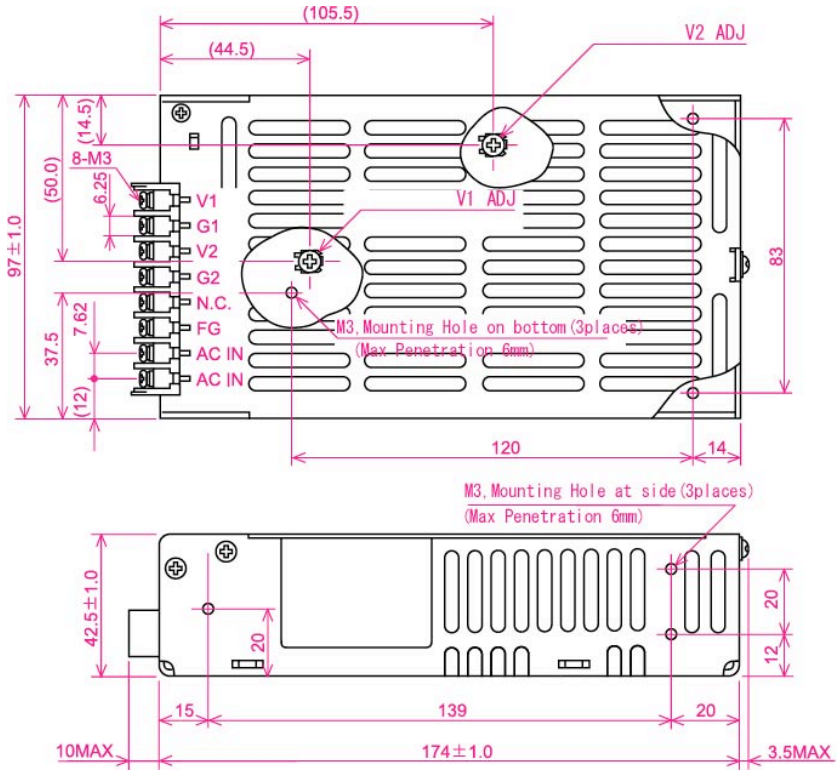
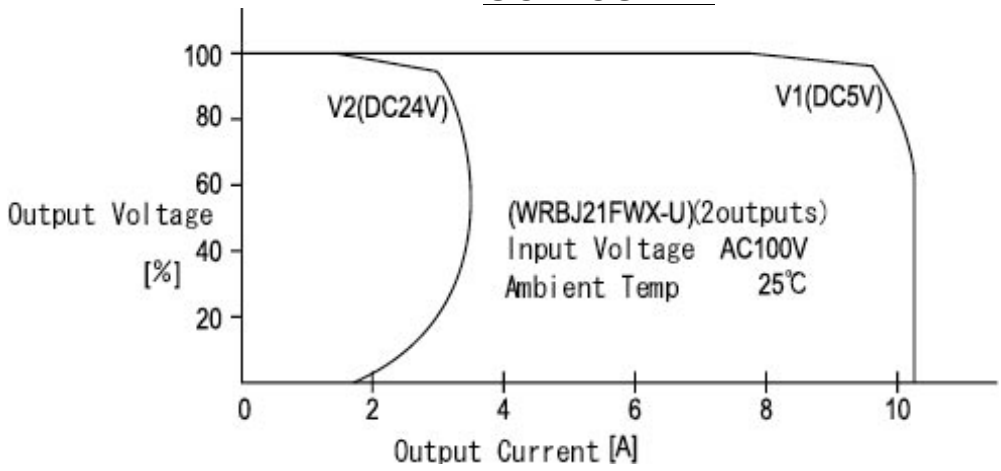
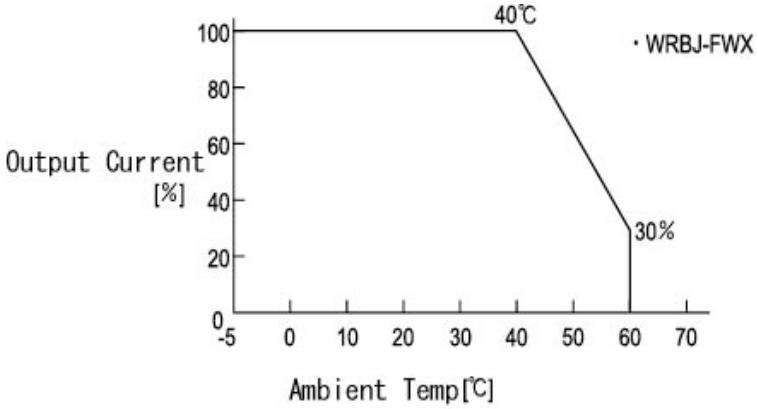
DIMENSION DIAGRAM



OCP CURVE



DERATING CURVE



※For safety specification, contact ETA Sales Representative

EFFICIENCY CURVE