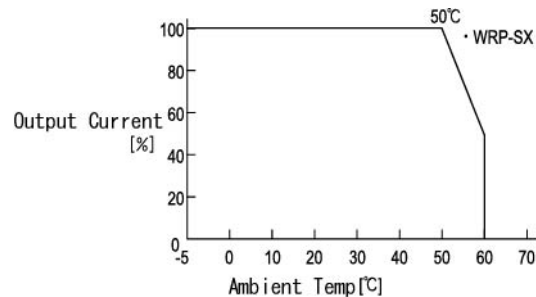


# 450 WATT AC-DC CONVERTER WRP-SX SERIES

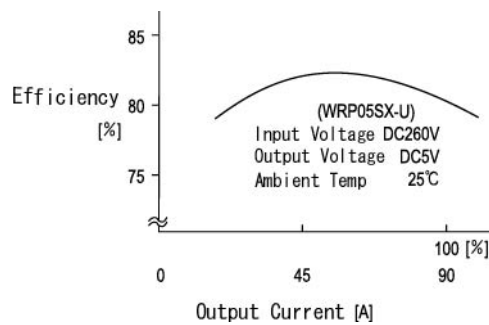
Specifications<AC/DC> WRP**SX-U 450WATTS/SINGLE	Model							
	WRP05SX-U	WRP06SX-U	WRP12SX-U	WRP15SX-U	WRP24SX-U	WRP30SX-U	WRP36SX-U	WRP48SX-U
<b>Input Characteristic</b>								
Input Voltage	AC115/230V							
Input Current	11A at AC115/6A at AC230							
Input Range	AC85-132V/170-264V(DC220-360V)							
Input Frequency	50/60Hz							
Input Frequency Range	47-440Hz							
Phase	Single							
Inrush Current *1	12A(maximum) at AC115/24A(maximum) at AC230V							
Efficiency [%] (typical) *2	80	82	84	85	85	85	86	86

## DERATING CURVE



※For safety specification, contact ETA Sales Representative

## EFFICIENCY CURVE



Specifications<AC/DC>	Model							
	WRP**SX-U 450WATTS/SINGLE	WRP05SX-U	WRP06SX-U	WRP12SX-U	WRP15SX-U	WRP24SX-U	WRP30SX-U	WRP36SX-U
<b>Output Characteristic</b>								
Output Voltage [V]	5	6	12	15	24	30	36	48
Output Current [A]	90.0	75.0	40.0	32.0	20.0	16.0	13.0	10.0
Voltage Adjust Range	+/- 10% of Rated Output Voltage(at no load within the input range)							
Ripple and Noise [mVp-p](maximum) *3	150	160	220	250	340	400	460	580
<b>Regulation</b>								
a.Statistic Line Regulation [mV](maximum)	25	30	60	75	120	150	180	240
b.Statistic Load Regulation [mV](maximum)	50	60	120	150	240	300	360	480
c.Temperature Coefficient *4	0.03%/°C							
d.Drift[mV](maximum) *5	40	45	75	90	135	165	195	255
e.Dynamic Load Regulation [mV](typical) *6	not specified							
f.Recovery Time *6	not specified							
Rise up time	500mS(maximum) at 25°C and rated input/output							
Hold up time	20mS(minimum) at 25°C and rated input/output							
<b>Functions</b>								
Overcurrent Protection	Current Limiting with automatic recovery							
≥ 105% of Rated Output Current[A]	94.5	78.8	42.0	33.6	21.0	16.8	13.7	10.5
Overvoltage Protection	Output shutdown(to reset,leave 1minute after shut-off)							
≥ 110% of Rated Output Voltage[V]	5.5	6.6	13.2	16.5	26.4	33.0	39.6	52.8
Remote Sense	available							
Remote On/Off	available							
Power Fail Detection	available							
Parallel/series Operation	available							
<b>Environmental</b>								
Operating Temperature *7	-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 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-operating)							
Shock	294m/s <sup>2</sup>							
Cooling	Forced Air(fan installed)							
? Leakage Current	1mA(maximum) at 25°C,rated input/output and rated input frequency							
? Line Conducted Noise	Built to meet FCC Part15-B Class A							
? Safety	UL: UL1950							
	C-UL: CSA C22.2 No.234 (Level 5)							
? Weight (typical)	2000g							
? MTBF [H]	155,000							
? Switching Frequency[kHz](typical)	135							

\*1 at cold start

\*2 at DC260V input and rated output

\*3 measured by a bayonet probe at the end of a pair of 15cm long wires terminated with a 330uF electrolytic capacitor and a 100uF ceramic capacitor in parallel at a 0 to 100MHz bandwidth

\*4 at -5 to +50°C

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

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

\*7 safety approved at 25°C

## **DIMENSION DIAGRAM**