



ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

AC/DC SWITCHING POWER SUPPLY
 MEDICAL GRADE
 AC INPUT 85~132V/170~264
 SINGLE CHANNEL OUTPUT
 150 WATTS

WRE12SX-U-M153



Application	
Medical Systems	
Input	
Input Voltage:	AC115/230V (Auto Range)
Input Voltage Range: *1	AC85~132V/170~264V (DC220-350V)
Input Current:	3.3A at AC115V / 1.9A at AC230V
Frequency:	50/60Hz
Input Frequency Range:	47-440Hz
Phase:	Single
Inrush Current: *2	12A (max.) at AC115V 24A (max.) at AC230V
Leakage Current:	1mA (maximum) at 25°C (rated input/output and rated input frequency)

Features
1. Auto-ranging input
2. Low EMI; EMI meets EN 55022/B, FCC/B Compact size
3. High efficiency & reliability
4. Output voltage adjustable
5. Over voltage protection
6. Medical Grade Safety Approval UL 544, UL 2601

Output Characteristic	Unit	WRE12SX-U
Output Voltage	Vdc	12
Output Current	A	14.0
Voltage Adjust Range	V	+/- 10% of Rated Output Voltage (at no load within the input range)
Ripple Noise(max)*4	mVpp	170
Rise up time	mS	500mS(maximum)AC115V/200mS(maximum)AC230V at 25°C and rated input/output
Hold up time	mS	20mS(minimum) at 25°C and rated input/output

Regulation		
a. Line Regulation	mV	36
b. Load Regulation	mV	36
c. Temperature Coefficient *5	°C	0.01%/°C
d. Drift(maximum) *6	mV	75
e. Dynamic Load Regulation (typ.) *7	mV	not specified
f. Recovery Time *7	mS	not specified

Efficiency *3	%	84
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Conditions:

*1 Auto-changeable between 100V input and 200V input at AC140V +/-2V

*2 at cold start

*3 at DC260V input and rated output

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

*5 at 0 to +50°C

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

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

*8 safety approved at 25°C



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Environmental Specification					
Operating Temperature	0 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 ² ,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)				
Shock	294m/s ²				
Cooling	Convection				
Environmental Agencies					
Line Conducted Noise	Built to meet VDE0871 Class B(≥150kHz) Built to meet FCC Part15-B Class B				
Safety	UL: UL 544, UL 2601				
MTBF [H]	430000				
Switching Frequency[kHz]	140				
Function/Protection					
Over current Protection (≥110% of Rated Output Current[A])	Current Limiting with automatic recovery				
	33.0	15.4	12.1	7.7	3.85
Over voltage Protection (≥110% of Rated Output Voltage[V])	Output shutdown(to reset, leave 1minute after shut-off)				
	5.5	13.2	16.5	26.4	52.8
Remote Sense	available				
Remote On/Off	not available				
Power Fail Detection	not available				
Series Operation	not available				
Parallel Operation	not available				
Mechanical					
Dimension [mm]	65Wx207Lx93H				
Weight	1,120g				

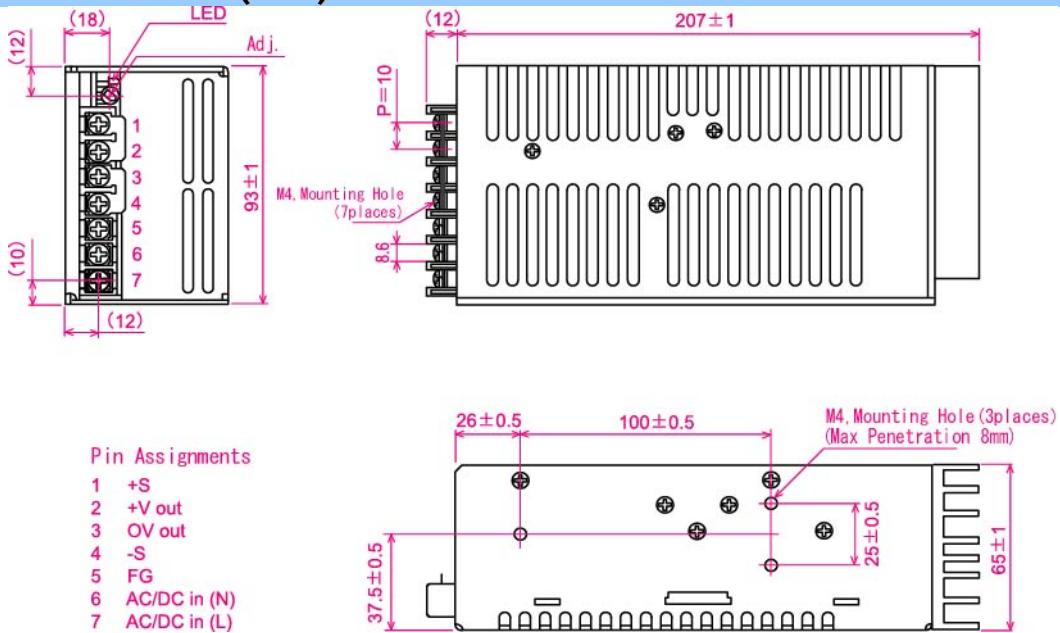




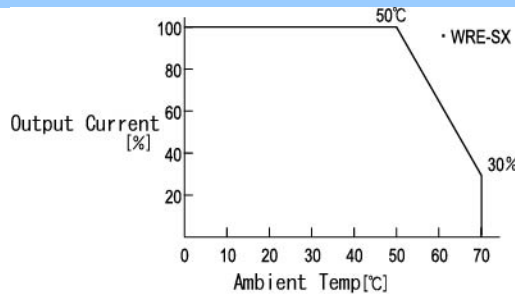
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DIMENSION DIAGRAM (mm)

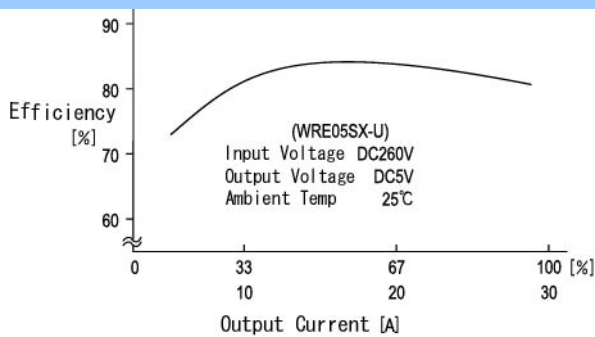


DERATING CURVE



※For safety specification, contact ETA Sales Representative

EFFICIENCY CURVE



OCP CURVE

