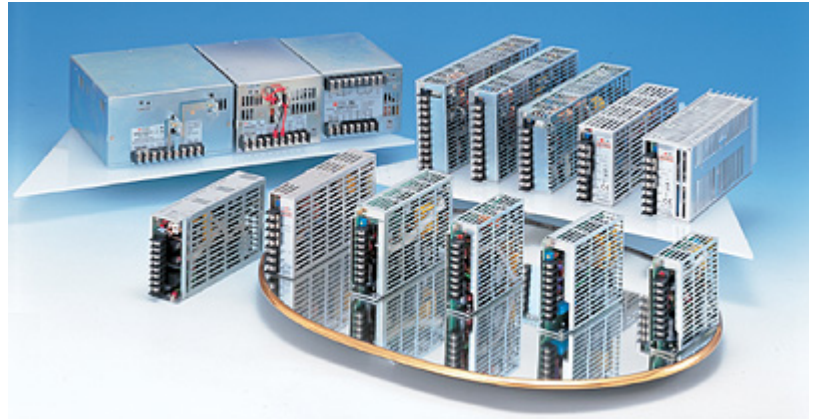


30 WATT AC-DC CONVERTER

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)**

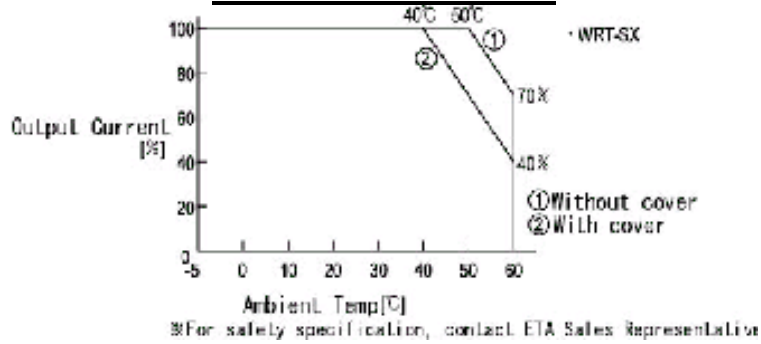


Features

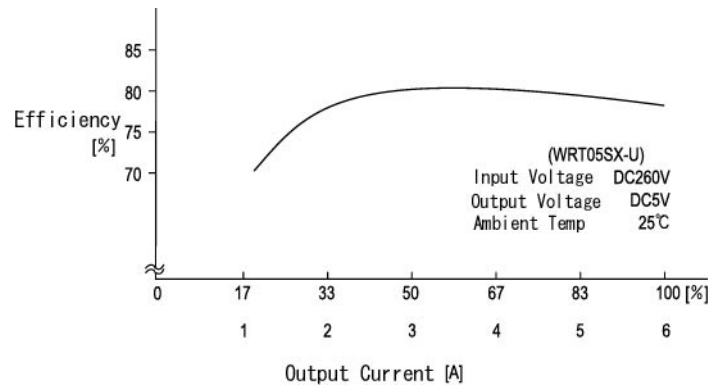
1. Universal input 85-264VAC
2. EMI: meets EN 55022/B, FCC/B
3. Compact size
4. High efficiency and reliability
5. Output voltage adjustable
6. Over voltage protection

| Specifications WRT**SX-U 30WATTS/SINGLE | Model | | | | |
|--|-----------------------|-----------|-----------|-----------|-----------|
| | WRT05SX-U | WRT12SX-U | WRT15SX-U | WRT24SX-U | WRT48SX-U |
| Input Characteristic | | | | | |
| 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 WRT**SX-U (30WATTS/SINGLE) | 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 ² 20minutes' period for | | | | | |
| Shock | 294m/s ² | | | | | |
| 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

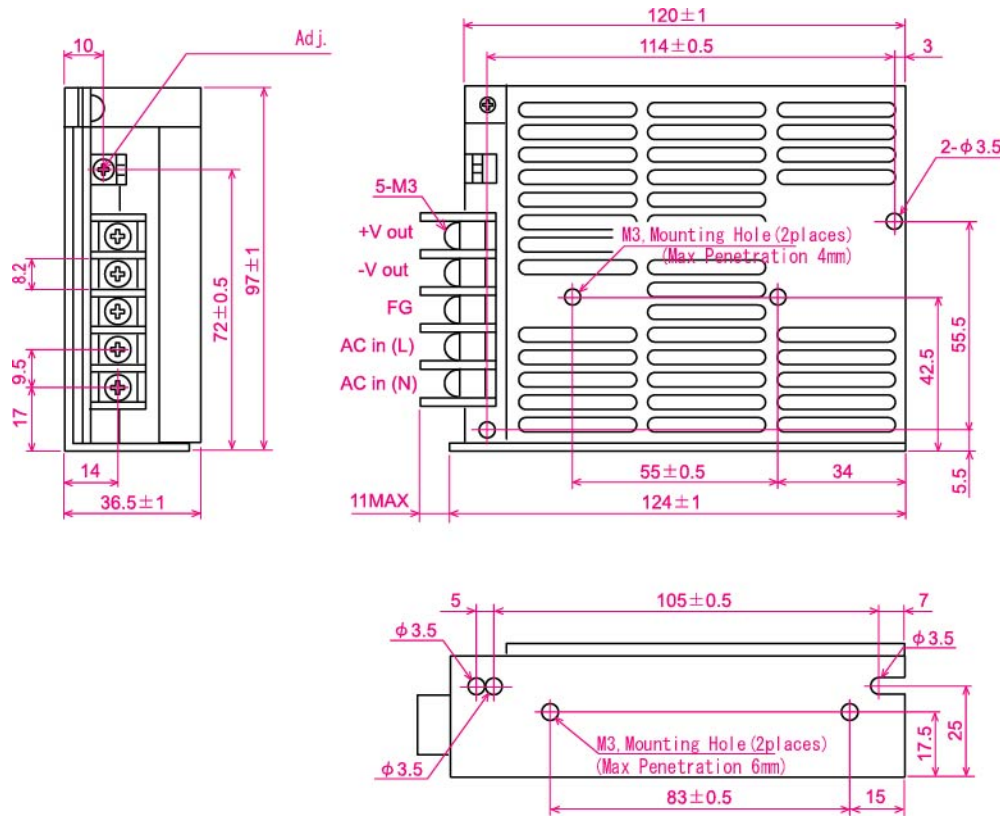
*3 measured by a bayonet probe at output connector at a 0 to 100MHz bandwidth

*4 at -5 to +40°C/open frame type:-5 to +50°C

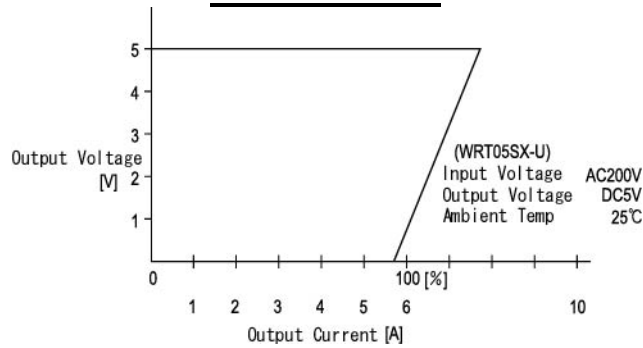
*5 for 7hour period after 1hour warm-up at 25°C and rated input/output

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

DIMENSION DIAGRAM



OCP CURVE



Mouser Electronics

Authorized Distributor

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