

## WiNPS 1S-IDU System Specifications

### Interfaces:

AC Input	Universal AC input 110/220VAC
Network Input	10/100 Base-T Ethernet
DC+ETH Output	1 port: <ul style="list-style-type: none"><li>• 48VDC, 240W</li><li>• Ethernet, CAT5, 100m *</li></ul>
LED indication	48VDC Power OK, green
* 100m from the network switch through the WiNPS1S to the base station	

### AC Input:

Voltage	85-264Vac, single phase
Frequency	47-63Hz
Inrush Current	Cold start, 45A at 230VAC, 27A at 115VAC
Efficiency	85% typical, full load rated power
Power Factor	0.96@230VAC, 0.99@115VAC (full load)
Input current	3A@115VAC, 1.5A@230VAC
Input Protection:	A 250Vac FAST ACTION Internal Line Fuse: IEC type

### Mechanical:

Size [WxHxD]	32.5x13x24 cm
Weight	2.5Kg
Input AC Connector	3 pin AC Inlet IEC320C14
DC Output Connector	LTW, WICCU-09PMFS-LC7001
Network Connector	RJ45

### DC Output:

Power	48VDC,240W
Load	Max: 5A
Ripple & Noise	150mVp-p max
Line Regulation	±0.5% for Vin (Min) to Vin (Max)
Load Regulation	±1% for load changes from zero to full load
Hold-up Time	24msec typically at 115/230Vac at full load
Turn-On Rise Time	800ms, 40ms/115Vac/230Vac at full load
Over-current Protection	105 to 150% of IMax, constant current limit, automatic recovery, when cause of overload or short is removed
Over-voltage Protection	Shut down at 54-60Vdc, AC input must recycled to restart.
Temperature Protection	100°C ±5°C (TSW1)detect on heat sink of power transistor Protection type : Shut down, recovers automatically after temperature goes down

### Environmental:

Temperature	Operating: -5°C to +40°C (de-rating linearly to 60 °C with 50% de-rating). Storage: -20°C to +85°C.
Temperature Coefficient	0 to 50°C ± 0.03%/°C
Humidity	Maximum 20% to 90% RH non-condensation.
Altitude	Operating 10,000 ft. Non- operating 40,000 ft.
Vibration	Three orthogonal axes at 1 octave/min, 5 min dwell at four major resonances at 0.75G peak, 5Hz to 500Hz.
Cooling	Free air convection, no internal fans

### Safety & EMC Regulations:

EMC	EN55011, EN55022 (CISPR22) Class B
Safety	UL508, UL60950-1, TUV EN60950-1 CE – MARK HARMONICS Voltage Fluctuation ESD +8KV AIR +4KV CONTACT DISCHARGE, performance criteria A Radiated Immunity: 80-1000Mhz 3V/m, AM 80% (1KHz), criteria A Fast Transient: 1KV for AC power port, 0.5KV for DC power I/O and signals Port, performance criteria A Surge: 2KV common mode and 1KV differential mode 3VRMS, 80% A.M. BY 1kHz 3A/m at 50Hz, performance criteria A Voltage Dips and interruption: 30% reduction for 10mSec –Criteria A, 60% For 100mSec. Criteria A, 95% reduction for 5000mSec Criteria A.
Immunity	EN50204, EN55024, EN61000-6-2 (EN50082-2)
Dielectric Withstand	Input to case: 1500VAC. Input to output: 3000VAC Output to case: 500VDC
Leakage Current	<3.5mA, 240Vac input.
MTBF	105.5Khrs MIL-HDBK-217F (25°C)

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