

# DC-AC INVERTERS

**POWER  
SOLVE**

[www.powersolve.co.uk](http://www.powersolve.co.uk)

## 2UPSWI Series Pure Sine Wave 2000 & 3000 Watts

### Features:

- 12V, 24V, 48V, 110V or 220V DC Inputs
- High Surge Rating
- 50/60 Hz Pure Sine Wave Output
- 100-120 or 200-240VAC Output Voltage
- 2U 19" Rack Mounting



### Electrical Specification

DC Inputs:	12V, 24V, 48V, 110V, 220V DC (see table below)
Output Voltage:	100 to 120VAC (tune VR) or 200-240VAC (tune VR)
Output Frequency:	50/60Hz switch selectable
Output Power:	2000W or 3000W continuous depending on model
Surge Rating:	2000W model, 2300W 3 mins, 2500W 3 secs & 4000W peak 3000W model, 3200W 3 mins, 3500W 3 secs & 6000W peak
Peak Output Current (120/240VAC):	25A/11A 2000W & 30A/15A 3000W
No Load Input Current:	See table
Output Waveform:	R Load pure sinewave <3% THD
Power Factor:	1.0
Protection:	Overload, short circuit, reverse polarity (fuse), over/under input voltage, over temperature
Digital Display:	OVP, UVP, OTP, OLP, VAC, Amps, Watts, VDC, Temp, Hz
Interface Control Port:	RS232 baud rate 2400, 4800, 9600, 19200 switch select
Remote Control Unit:	Optional - consult sales office for details
AC Input (for UPS use):	Either nominal 110VAC or 220VAC, depending on model
AC Input Frequency:	50~60Hz $\pm$ 3%
Bypass Switchover Time:	4~6mS
Operating Temperature Range:	-20°C to +50°C
Storage Temperature Range:	-30°C to +70°C
Cooling:	Thermostatically controlled integral fan
Dimensions (in mm):	424W X 435D X 88H
Output Socket:	Optional, UK, Euro, USA, Australia & NZ or Universal
Weight:	2000W 12.8kgs, 3000W 14.3kgs
Safety:	EN60950-1, UL458 on 1500W 120VAC output model
EMC:	2000W Models FCC 'A' (110V output), EN55022'A', EN55024, EN61000-3-2, EN61000-3-3, EN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11
	3000W Model FCC'A' (110V input), EN55022'A', EN61000-3-2, EN61000-3-3

# DC-AC INVERTERS



[www.powersolve.co.uk](http://www.powersolve.co.uk)

## Input & Output Ratings

Model	DC Input	AC Output	Power Cont.	Input OV Alarm	Input OV Shutdown	Input UV Alarm	Input UV Shutdown	Efficiency Full Load	No Load Current
<a href="#">2UPSWI-2000-12-110</a>	10-16V DC	110V AC	2000W	15.5V DC	16.0V DC	10.5V DC	10.0V DC	86%	1.45A
<a href="#">2UPSWI-2000-12-220</a>	10-16V DC	220V AC	2000W	15.5V DC	16.0V DC	10.5V DC	10.0V DC	87%	1.47A
<a href="#">2UPSWI-2000-24-110</a>	20-32V DC	110V AC	2000W	31.0V DC	32.0V DC	21.0V DC	20.0V DC	88%	0.70A
<a href="#">2UPSWI-2000-24-220</a>	20-32V DC	220V AC	2000W	31.0V DC	32.0V DC	21.0V DC	20.0V DC	90%	0.80A
<a href="#">2UPSWI-2000-48-110</a>	42-62V DC	110V AC	2000W	61.0V DC	62.0V DC	43.0V DC	42.0V DC	90%	0.47A
<a href="#">2UPSWI-2000-48-220</a>	42-62V DC	220V AC	2000W	61.0V DC	62.0V DC	43.0V DC	42.0V DC	92%	0.57A
<a href="#">2UPSWI-2000-110-110</a>	90-140V DC	110V AC	2000W	135.0V DC	140.0V DC	95.0V DC	90.0V DC	94%	0.38A
<a href="#">2UPSWI-2000-110-220</a>	90-140V DC	220V AC	2000W	135.0V DC	140.0V DC	95.0V DC	90.0V DC	94%	0.40A
<a href="#">2UPSWI-2000-220-110</a>	180-275V DC	110V AC	2000W	270.0V DC	275.0V DC	185.0V DC	180.0V DC	94%	0.18A
<a href="#">2UPSWI-2000-220-220</a>	180-275V DC	220V AC	2000W	270.0V DC	275.0V DC	185.0V DC	180.0V DC	94%	0.20A
<a href="#">2UPSWI-3000-12-110</a>	10-16V DC	110 VAC	3000W	15.5V DC	16.0V DC	10.5V DC	10.0V DC	84%	1.50A
<a href="#">2UPSWI-3000-12-220</a>	10-16V DC	220V AC	3000W	15.5V DC	16.0V DC	10.5V DC	10.0V DC	85%	2.20A
<a href="#">2UPSWI-3000-24-110</a>	20-32V DC	110V AC	3000W	31.0V DC	32.0V DC	21.0V DC	20.0V DC	86%	0.82A
<a href="#">2UPSWI-3000-24-220</a>	20-32V DC	220V AC	3000W	31.0V DC	32.0V DC	21.0V DC	20.0V DC	88%	1.08A
<a href="#">2UPSWI-3000-48-110</a>	42-62V DC	110V AC	3000W	61.0V DC	62.0V DC	43.0V DC	42.0V DC	87%	0.39A
<a href="#">2UPSWI-3000-48-220</a>	42-62V DC	220V AC	3000W	61.0V DC	62.0V DC	43.0V DC	42.0V DC	90%	0.55A
<a href="#">2UPSWI-3000-110-110</a>	90-140V DC	110V AC	3000W	135.0V DC	140.0V DC	95.0V DC	90.0V DC	94%	0.16A
<a href="#">2UPSWI-3000-110-220</a>	90-140V DC	220V AC	3000W	135.0V DC	140.0V DC	95.0V DC	90.0V DC	94%	0.28A
<a href="#">2UPSWI-3000-220-110</a>	180-275V DC	110V AC	3000W	270.0V DC	275.0V DC	185.0V DC	180.0V DC	94%	0.11A
<a href="#">2UPSWI-3000-220-220</a>	180-275V DC	220V AC	3000W	270.0V DC	275.0V DC	185.0V DC	180.0V DC	94%	0.12A

For output connectors add suffix -UK after part number for 13A socket, -EU for Euro socket, -US or US-GFCI for USA socket, -AU for Australia/New Zealand or -UV for universal version.

<b>Universal</b>	<b>Australia / New Zealand</b>
<b>United Kingdom</b>	<b>Continental European(SCHUKO)</b>
<b>North America(GFCI)</b>	<b>North America</b>

DC Input Connectors as per photos below showing coloured screw terminals for 1500W and 2000W units and heavy duty bus bar for 3000W units. RS232 interface is via a 9 pin D type connector.



2000 Watts



3000 Watts

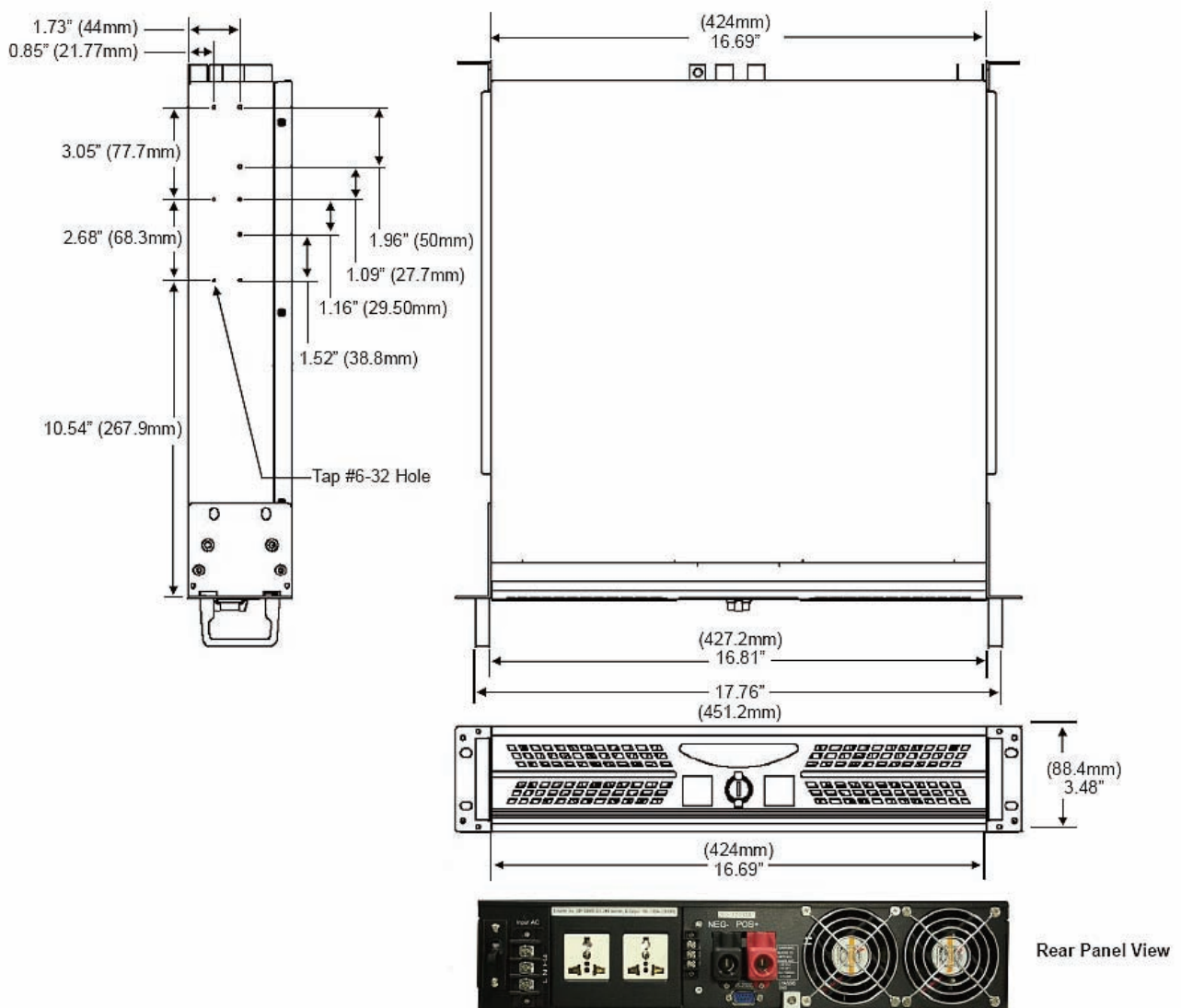
Other options: Remote control unit, Locking hinged front panel cover - consult sales office for details

# DC-AC INVERTERS



[www.powersolve.co.uk](http://www.powersolve.co.uk)

## Mechanical Details



Dimensions in (mm) inches