



Model IPU 1000

Main Features

- Employs high frequency PWM technology
- A microprocessor controls all diagnostics and operation
- Power density (2kVA in 1U 19" shelf; 1kVA in 1U 9.5" cabinet)
- Lightweight
- Standalone or parallel operation
- Parallel capability for N+1 redundancy
- High efficiency
- Transformerless design
- Continuous input DC current

Options

- Parallel operation
- BYPASS (for standalone operation)
- Management software
- RS232 Communication port

10 units of IPU1000 installed in parallel



POWER	0.5kVA	1kVA
Topology	Dual high frequency conversion	
Control	Dual 8-bit RISC Microcontroller	
INPUT		
Voltage	24Vdc (nominal) 21 ÷ 30Vdc	48Vdc (nominal) 42 ÷ 60Vdc
Current	21A (max.)	20A (max.)
Psophometric noise	<2mV at full load	
Low voltage shutdown	21Vdc±0.5	42Vdc±0.5
OUTPUT		
Voltage	220/230Vac	
Power	500VA / 350W	1000VA / 700W
Efficiency (dc-ac)	88% @ 24VDC	90% @ 48VDC
Frequency	50/60Hz± 0.1% (free-mode)	
Synchronization range	45-66Hz	
Synchronization system	Digital PLL	
Waveform	Pure sinewave	
THD	1.5% max. for linear load 4% max. for non-linear load	
Crest factor	3:1 max. for non-linear load	
Voltage regulation (line & load)	± 1% (static) recovery within 500mS	
GENERAL		
Parallel Configuration	Up to 10 units in parallel	
Isolation voltage	1500VAC input-output 1500VAC output-chassis 500VDC input-chassis	
Protection	Input right polarity, output over-voltage, output overload & short circuit (inherent by pulse-by-pulse), LVD (low input voltage disconnection), over-temperature	
Display	5 LEDs and load bar graph	
LED indications	Status, ON, dc low voltage, overload	
Safety	IEC 950 (EN 60950)	
EMC (including the shelf)	EN300-386-2, EN 50082-1, EN 55022	
Audible noise	< 50dBA @ 1.5m	
Temperature	-10° +50°C	-10° +45°C
Signalization	2 dry contacts (fault indication)	
Dimensions WxHxD (mm)	202 x 44 x 243	
Weight (without shelf)	1.5Kg	

All specifications are typical and subject to change without prior notice