

IM SERIES MODULAR INVERTERS

Efficient and reliable, these modular rack mount inverters allow for easy paralleling of modules to provide redundancy or higher power outputs. Designed for use in modern telecommunications networks these inverters offer unrivalled power densities.

The unique design allows for mounting nine inverters in a 5U x 19" rack space or two inverters in a 1U x 19" rack space.

"Plug and Play" installation allows quick and easy installation and system expansion. These robust, reliable inverters are forced cooled by two speed controlled and monitored high reliability fans.

- Pure sine wave.
- Hot swappable.
- High efficiency.
- Smart fan speed control.
- Wide operation temperature range.
- DSP chip designed.
- N+X redundancy system.
- Lower audible noise.
- High power density.
- Enatel RCP bus.
- 48V DC telecom system application.
- CE & RoHS compliant.



SPECIFICATIONS

DC Input

Operating Voltage Range: 40.5-58V DC

AC Output

Nominal Output Voltage: 110/230V AC (refer to part number table below for model numbers)

Output Voltage Range: 110/115/120V AC or 208/220/230/240V AC

Output Voltage Tolerance: +/- 2%

Output Voltage Frequency: 50/60Hz selectable.

Output Frequency Tolerance: +/- 0.5%

Total Harmonic Distortion: <3% on linear loads.
 <5% for non linear loads.

Turn On Delay: <3 seconds.

Crest Factor: 3:1 (nominal power)

Efficiency: 90%

Output Power (refer to part number table below for model numbers)

Nominal Value: 1000VA, 800W/
 1500VA, 1200W

Overload (5 Seconds): 2000VA

Permanent Overload: 10%

Admissible Load Power Factor: 0 inductive to 0 capacitive (100% load)

Isolation:

Input/Output: 2500V AC

Output/Earth: 2500V AC

Input Earth: 1500V AC

Operating Temperature Range: -40°C to +50°C, derated to +70°C

Acoustic Noise: <55dBa @ 1m

Display: 3x LEDs, fail, off normal, power on.

Serial Comms: Enatel SBI interface to SM3X supervisory module.

Mechanical

Dimensions, W, H, D: 215mm, 43.8mm, 270mm overall.

Weight: 2.5kg

Shipping Dimensions W, H, D: 52mm, 230mm, 340mm

Shipping Weight: 2.65kg

Cooling: Forced cooled.

Compliances

Immunity: CISPR24

Emissions: CISPR22 Class B

Safety: IEC60950

Other: CE & RoHS compliant.

Part Numbers

IM10230-48: 1U, 48V DC input, 230V AC output, 1.0kVA 800W

IM10110-48: 1U, 48V DC input, 120V AC output, 1.0kVA 800W

IM15230-48: 1U, 48V DC input, 230V AC output, 1.5kVA 1200W

IM15110-48: 1U, 48V DC input, 120V AC output, 1.5kVA 1200W

