

IM Series Modular Telecom 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 swapable.
- 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

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|-------------------------------|---|
| DC Input | |
| Operating Voltage Range: | 40.5-58V DC |
| AC Output | |
| Nominal Output Voltage: | 110/230V AC (see 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 | |
| Nominal Value: | 1500VA |
| 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: Generic part numbers shown below. Actual part numbers will vary with configuration.

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|-------------|--|
| IM10230-48: | 1U, 48V DC input, 230V AC output, 1KvA 800W |
| IM10110-48: | 1U, 48V DC input, 120V AC output, 1KvA 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 |

