

230V/50Hz, 1KVA/2KVA/3KVA/5KVA, -48VDC operated pure sine wave telecom Inverter



Product Description: Magnizon MPTI Series inverters are single phase 230V, 50Hz, fan cooled standalone inverters with integrated static switch. Product delivers uninterruptible, stabilized 1-Ph AC voltage from -48V DC battery systems. MPTI series inverters are designed to operate at harsh and wide operational temperatures and its dynamic performance of the inverters meets the supply requirements for modern telecommunication applications. Units are designed to support high inrush current demands and overloading capability handling the raw AC input power supply from wide varieties of diesel generator.

Key features:

- 48V DC or 230V AC input; 230V/ 50 Hz output (hardwired)
- 800/1600/2400/4000 watts continuous output with double boost capacity.
- Microprocessor controlled Smart volume design
- Pure sine wave AC output
- High Efficiency Using Line-Interactive Circuit Topology(Full Bridge Topology)
- Quiet, high efficiency operation, high surge capacity and low idle current
- CE Safety
- High startup current capability
- Very low output voltage distortion
- Compatible to mains voltage or generator power

High Reliability

- With isolation between DC input and AC output
- Impact resistance design fit for high impact load even for air conditioner
- Full digital technology

Perfect Performance

- Pure sine wave output with THDi<3% (full load)
- With ECO function (can be set to bypass first)
- Perfect protection of output short circuit, overload, battery low, over temperature etc.
- Special Low DC noise design for communication industry

Easy to use

- Rack mount type design, is fit for 19 inch cabinet
- Dry contact communication function convenient for system monitor
- Front maintenance design convenient for installation and maintenance

Applications

- ❖ MPTI Series inverter are used as a standalone applications
- ❖ Backup AC power for infrastructure equipment
- ❖ Network base stations & Telecom BTS applications
- ❖ Wireless applications
- ❖ Fixed line applications and data communications

Specifications:

Description	MPTI Series 48Vdc Inverter (1-5kVA)
DC Input Voltage	48Vdc
Capacity	MPTI-48V1K: 1000VA
	MPTI-48V2K: 2000VA
	MPTI-48V3K: 3000VA
	MPTI-48V5K: 5000VA
Output Power Factor	0.8
Voltage	110/220/230Vac
Frequency	50/60Hz±1%
Output Waveform	Pure Sine wave, THD<3% with full linear load
Transfer Time Between Bypass and Inverter	<8ms
Over load capacity	150% of nominal rating
Protection	Battery low voltage, over voltage, overload, output short circuit, over temperature etc.
Cooling	Fan cooled
Acoustics:	<55dB(A)
Operating Temp:	-20degC to +50degC
Width×Depth×Height (mm) & Weight	MPTI-48V1K: 440×286×1U & 5Kg
	MPTI-48V2K: 440×350×2U & 10Kg
	MPTI-48V3K: 440×350×2U & 10Kg
	MPTI-48V5K: 440×440×3U & 14Kg
Standards	EMI:EN55022 class A
	Safety: IEC/EN60950
	Environment: RoHs & ISO14001:2015
	Quality: ISO9001:2015
Communication	RS232, Dry contact