

tuncmatik

Industrial Inverter

1-3 kVA RT (1 Ph)

1-200 kVA (1 Ph)

10-500 kVA (3Ph)

INVERTER



GENERAL SPECIFICATIONS

- Full sinus output waveform.
- IGBT/IPM Technology (Inverter circuit).
- Galvanic isolation at the output of the inverter.
- Advanced 2x16 or 4x20 LCD Panel providing detailed information on Input/Output voltage, battery voltage and charging current.
- Programable dry contact outputs (NO / NC).
- DSP (Digital Signal Processor) control.
- RS232 and or RS485, ModBus Communication and remote monitoring.
- Overload and short circuit protection.
- Compatible with International Standards.
- Audible alarm.
- <1% Voltage Stability.
- Uninterrupted bypass switching.
- Automatic start & fault recovery.
- Up to 200 kVA in single phase models.
- Smart fault diagnosing.
- Ability to operate on non-linear loads
- Alarm logging with date and time.
- 200 recorded event history.
- Halogen free cable.
- 20 years design life.

OPTIONS

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| <ul style="list-style-type: none"> • Parallel operation • Power Analyzer (Input or Output) Single (VA, W, PF, V, A etc.) • Analog Gauges (V & A meter) • TFT Touch Panel Display • Mimic Panel • Internal Cabinet Heater (250W) • Fan failure Monitoring • Surge Suppression Device (SPD)(Fusible) • Battery Temp. Compensation / Temperature Measurement | <ul style="list-style-type: none"> • Input Three Phase Snubber Board • Battery discharging facility • Lifting Lugs • AC Earth Fault • DC Earth Lockage Relay • Coating on Boards • Up to IP54 • Overseas Packing • Input/Output voltage, Current transducers (4-20mA and 0-10V simultaneously). | <ul style="list-style-type: none"> • Alarm and Comm. Interface (MODBUS RS232 +4 Relay) • Alarm and Comm. Interface (MODBUS RS485 +4 Relay) • Alarm and Comm. Interface (MODBUS TCP IP +4 Relay) • Alarm and Comm. Interface (Extra +4 Relay) (Max 12) • SNMP |
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1-500 kVA (1&3 Ph)

INVERTER



MODEL		Rack Type (1 Phase)	Tower Type (1 Phase)	Tower Type (3 Phase)
Capacity (VA/W)		1-3 kVA	1-200 kVA	10-500 kVA
INPUT				
Input Voltage (DC)		24-220 VDC	24-220 VDC	24-650 VDC
Alternative Voltage (AC)		110-600 VAC & 50/60-400 Hz		
Design Topology		Industrial Static Inverter (AC/DC) w. Ouput Isolation Transformer		
Conversion Topology		Insulated Gate Bipolar Transistor (IGBT Based)		
OUTPUT				
Output Voltage		220 VAC ±15% (Standard), 110-260 VAC ±15% (Available)		3x380 VAC ±15% (Standard), 190(110)-600(346) VAC ±15% (Available)
Frequency		50/60-400 Hz ±1%(sync), ±0,5%(not sync)		
Voltage Regulation		<1% max.		
Voltage Tolerance		±1% (Static); ±5% (Dynamic 100% load change 50ms)		
THDv		<2% (linear load); <5% (non-linear load)		
Waveform		Pure Sinewave		
Switch to Bypass		<4ms		
Switch to Inverter		0ms (Re-transfer delay adjustable)		
Overload	Inverter Mode	125% for 10min / 150% for 1min / 200% for 1sec (adjustable)		
	Bypass Mode	110% for continuos / 150% for 1min / 1000% for 50ms (adjustable)		
Efficiency		82-90% (depending on DC Bus)		
Power Factor		0,8		
Crest Factor		3:1		
SYSTEM FEATURES				
Measurements		Input/Output Frequency, Input/Output Voltage, Input/Output Current, DC Bus Voltage, DC Bus Current		
Alarms		Output Low/High, Overload, Overcurrent, Over Temperature, Short Circuit, IGBT Overcurrent, Memory, DSP Error, Under Voltage, AC Synchronization, Current Limiting		
Software		Management software		
Communication		RS232, Dry Contact x4 (OPT: x16)		
LED Indicators		Operation of Alarms		
Front Panel		LED/LCD Panel		
Paralel Operation		Up to 2		
Internal Protection		Overvoltage, Overload, Short Circuit, SCR Rapid Protection		
Cooling System		Fan forced (Dual redundant), (OPT: Natural Cooling)		
Cable Entry		Bottom (OPT: Top, Rear, Side)		
Cabinet Color		RAL7032,7035 (OPT: Others)		
Protection Class		Standard: IP20		
ENVIRONMENTAL				
Operation Temperature		0 - 50°C		
Storadge Temperature		-25 - 70°C		
Relative Humidity		up to 90% (non-condensing)		
Altitude		1000m from MSL (1% derate each 100m after 1000m)		
Noise Level		50 to 73 dBA (depending on rating)		

**Product properties may change without a notice.*