

tuncmatik

Industrial UPS

1-500 kVA (1&3 Ph)

UNINTERRUPTIBLE POWER SUPPLIES



GENERAL SPECIFICATIONS

- 6 pulse thyristor controlled rectifier.
- Full sinus output wave-form.
- IGBT/IPM Technology (Inverter circuit).
- Galvanic isolation at the output of the inverter.
- Temperature compensated battery charging.
- Hot standby configuration.
- Advanced 2x16 or 4x20 LCD Panel providing detailed information on Input/Output voltage, battery voltage and charging current.
- Interior temperature and setting user selected parameters.
- Programmable dry contact outputs (NO / NC).
- DSP (Digital Signal Processor) control.
- RS232 and or RS485, ModBus Communication and remote monitoring.
- Audible alarm.
- Space Vector Control technology.
- Ability to set up / adjust all operational parameters through front panel and PC communication.
- Input, Output over voltage, over current, short circuit, over temperature protections.
- Ability to control via external digital input or communication.
- Programmable automatic restart.
- Static and mechanic maintenance Bypass.

OPTIONS

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| <ul style="list-style-type: none"> • Power Analyzer (Input or Output) Single (VA, W, PF, V, A etc.) • Analog Gauges V & A meter • TFT Touch Panel Display • Mimic panel • Parallel operation [1+3 system (Standby, Current shaping, Paralel redundant)] • IGBT Rectifier • 12 Pulse Rectifier and filter (%8 THDi) • Internal Cabinet Lighting (LED 24V 20W) • Internal Cabinet Heater (250W) | <ul style="list-style-type: none"> • Fan failure Monitoring • Dust filter • Maintenance Bypass switch with full isolation • Input isolation transformer • AC Earth Fault • Surge Suppression Device SPD)(Fusible) • Input Three Phase Snubber Board • Battery Temp. Compensation / Temperature Measurement • Lifting Lugs • Coating on Boards • Up to IP54 | <ul style="list-style-type: none"> • Overseas Packing • 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) • Input/Output voltage, Current transducers (4-20mA and 0-10V simultaneously). • SNMP Card • GSM Communication |
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- Advanced automatic and manual battery test system.
- Superior performance on non-linear loads.
- High efficiency up to 94%.
- Overload and short circuit protection.
- Compatible with International Standards.
- Soft start.
- Alarm logging with date and time.
- 200 recorded event history.
- Halogen free cable.
- 20 years design life.

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MODEL	10 kVA	15 kVA	20 kVA	30 kVA	40 kVA	60 kVA	80 kVA	100 kVA	120 kVA	160 kVA	200 kVA	250 kVA	300 kVA	400 kVA	500 kVA	
Capacity (kVA/kW)	10/8	15/12	20/16	30/24	40/32	60/46	80/64	100/80	120/96	160/128	200/160	250/200	300/240	400/320	500/400	
INPUT																
Voltage	220VAC±15% Standard (110VAC to 260VAC ±15% available)															
	3x380VAC±15% Standard (190(110)VAC to 460(265)VAC ±15% available)															
Frequency	50Hz / 60Hz ±10%															
Input Power Factor	0,8 (0,9 at optional filter or 12 pulse rectifier)															
Rectifier Topology	6 pulse full bridge rectifier or IGBT															
OUTPUT																
Voltage	220VAC±15% Standard (110VAC to 260VAC ±15% available)															
	3x380VAC±15% Standard (190(110)VAC to 460(265)VAC ±15% available)															
Frequency	50/60 Hz															
Voltage Stability	Balanced load: ±1%; Unbalanced load: ±2,5%; Step load: ±5%															
THDv	<3% (linear loads); <7% (non-linear load)															
Frequency Tolerance	Adjustable +2% (synchronous), +0,2% (free operation)															
Overload Protection	100-125% load 10min; 125-150% load 1min; >150% load bypass															
Efficiency	87-91%					90-92%					92-94%					
Power Factor	0.8															
Crest Factor	3:1															
BATTERY																
Type	Maintenance free lead-acid															
Battery Quantity	10 / 20 / 30 / 32					30 / 32 / 44					30 / 32 / 44					
Charge Voltage	135 / 270 / 405 / 432					405 / 432 / 540					405 / 432 / 540					
Discharge Voltage	102 / 204 / 300 / 320					300 / 320 / 480					300 / 320 / 480					
Ambient Temperature	25°C															
Battery Test	Automatic or Manual															
SYSTEM FEATURES																
Measurements	Input Frequency / Output Frequency / Output Voltage / Output Current / DC Bus Voltage / DC Bus Current															
Alarms	Output Low/High, DC Bus Too Low/Low/High, Overload, Overcurrent, Over Temperature, Short Circuit, IGBT Overcurrent, Memory, DSP Error															
Software	Management software															
Communication	RS232, Dry Contact x4 (OPT: x16)															
LED Indicators	Operation of Alarms															
Front Panel	LED/LCD Panel															
Cooling System	Fan forced (Dual redundant), (OPT: Natural Cooling)															
Cable Entry	Bottom (OPT: Top, Rear, Side)															
Cabinet Color	RAL7032,7035 (OPT: Others)															
Protection Class	IP20															
ENVIRONMENTAL																
Operation Temperature	-10 - 50°C															
Storage Temperature	-20 - 70°C															
Relative Humidity	0 - 95% (Non-condensing)															
Altitude	1000m (-1% Power for every 100m after 1000m)															
Noise Level	<56 dBA			<60 dBA			<65 dBA			<70 dBA						
Isolation Resistance	200MQ															

*Product properties may change without a notice.