

# MST Series

6kVA



## Features

- Double Conversion
- On-Line Batteries
- VFI - Volt Frequency Independent (EN50091-3)
- Inverter Isolation Transformer
- Static Switch
- DC soft start
- Rectifier/Charger for Extended Backup Time
- Battery Current Limit Circuit for Safe Battery Charge
- LED Display
- Alarm Dry Contacts Relay
- Automatic and Manual Battery Test
- RS232 Interface for Smart Software and SNMP Management options
- PSM-AC Universal Management Application (option)

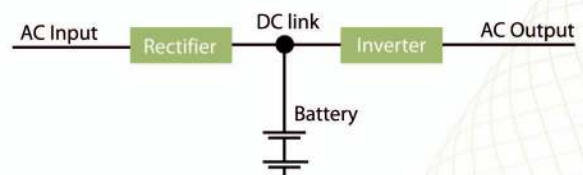
## On-Line Double Conversion UPS with Static Switch

The MST is a small, attractive, compact and reliable UPS, in the power capacity of 6kVA.

The MST series is a classic Double Conversion On-Line UPS with an inverter isolation transformer and static switch. The separate battery enclosures allow flexibility in backup time.

### Double Conversion True On-Line Battery (VFI)

According to IEC 62040-3



Our Power, Your Confidence

## MST Series Specifications

INPUT	
Voltage	230V/220V
Voltage Range	10% - 15%
Frequency	50/60Hz±3Hz
Power Walk-In	5 sec.
Protection	Circuit Breaker; RFI filter(option)
OUTPUT	
Voltage	230V/220V No DC Component
Regulation (at normal input)	±2% (±1% optional)
Freq. Tracking Range	±2Hz
Slew Rate	1Hz/sec
Overload	125% 10 min. 150% 30 sec. 1000% 1 cycle
Load PF	0.7
Waveform	Pure sinusoidal
THD	Less than 2% (at linear load)
Crest Factor	3:1
Protection	Overload and short circuit
Dynamic Response on 100% Load Change	±2%
Transition Time from STSW to Inverter and Vice Versa	Less than 0.5 msec.
Rejection Ratio	More than 100dB
Audible Noise (dB) at 1.5m distance	51
ENVIRONMENT	
Ambient Temperature	
Operating	0°C to 40°C
Storage	-20°C to 60°C
Relative Humidity	95% max. Non-condensation
Altitude	1500m w/o derating
UPS Standards	
General & Safety	IEC 62040-1-1
EMC	IEC 62040-2
Design	IEC 62040-3
MTBF	100,000 hrs. 250,000 hrs. with static switch
INDICATIONS	
Output load via 7 LED bar graph	
Audio Alarm	
Battery OK	
Line OK	
Bypass/ Inverter	
OPTIONS	
Extended Battery Backup	
Other Voltage/Frequency	
Bypass Isolation	
COMMUNICATION OPTIONS	
RS232 Interface (standard)	SEC protocol
Alarm Interface (standard)	Systems shutdown, 3 dry contacts
GMaC	Gamatronic's management & SNMP card
WING	Gamatronic's wireless card
PSM-AC Universal	Management application

MODEL	6kVA
INPUT	
Voltage	220/230V
Required External Input MCB	32A
OUTPUT	
Voltage	220/230V
Power	6kVA 4.2kW
Efficiency Ac-Ac	
100% load (%)	85
50% load (%)	84
Full Load Heat Dissipation (W) (1W=3.4 BTU/h)	741
BACKUP OPERATION	
Backup (min) with standard 5AH X16 batteries:	
100% load	4
50% load	12
Battery Charging Time	approx 4 hrs
Internal Batteries: 16x5AHx12V	External option 16 x up to 200Ah
Batteries Voltage	216Vdc
Maximum Charging Current (configurable)	20A
PHYSICAL	
UPS	
Size (cm) H	26
W	19
D	67
Weight (Kg)	47

\*All specifications are typical and subject to change without prior notice

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