

MST Series

3.6kVA and 6kVA

UPS



MST Series On-Line Double Conversion UPS with Static Switch

The MST is a small, attractive, compact and reliable UPS, in the power capacity of 3.6kVA and 6kVA.

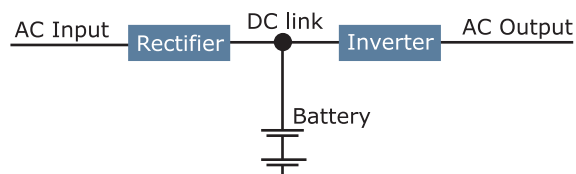
The MST series is a classic Double Conversion On-Line UPS with an inverter isolation transformer and static switch. The separate battery enclosures allow flexibility in backup time.

Main Features

- ▶ Double Conversion
- ▶ On-Line Batteries
- ▶ VFI - Volt Frequency Independent (EN50091-3)
- ▶ Inverter Isolation Transformer
- ▶ Static Switch
- ▶ DC 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
- ▶ PSM-AC Universal Management Application (option)

Double Conversion True On-Line Battery (VFI)

According to IEC 62040-3



INPUT	
Voltage	230V/220V
Voltage Range	10% - 15%
Frequency	50/60Hz \pm 3Hz
Power Walk-In	5 sec.
Protection	Circuit Breaker; RFI filter(option)
OUTPUT	
Voltage	230V/220V No DC Component
Regulation (at normal input)	\pm 2% (\pm 1% optional)
Freq. Tracking Range	\pm 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	\pm 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	EN50091-1
EMC	EN50091-2
Design	ENV50091-3
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	For shutdown & SNMP
Alarm Interface	Systems shutdown, 3 dry contacts
GMAc	Gamatronic's management card
WING	Gamatronic's wireless card
PSM-AC Universal	Management application

MODEL	3.6kVA	6kVA
INPUT	220/230V	
Voltage		
Required External Input MCB	25A	40A
OUTPUT		
Voltage	220/230V	
Power	3.6kVA 2.5kW	6kVA 4.2kW
Efficiency AC-AC		
100% load (%)	85	85
50% load (%)	84	84
Full Load Heat Dissipation (W) (1W=3.4 Btu)	441	741
Inverter Efficiency at full load (%)	91	91
BACKUP OPERATION		
Backup (min):		
100% load	9	4
50% load	28	12
Battery Charging Time	approx 4 hrs	approx 4 hrs
Batteries (12Vdc each)	External 16x5AH	External 16x5AH
Batteries Voltage	216Vdc	
Expected Battery Life	5 years	
PHYSICAL		
UPS		
Size (cm) H	26	26
W	19	19
D	67	67
Weight (Kg)	36	47
Batteries Cabinet (16x5AH)		
Size (cm) H	10	10
W	19	19
D	60	58
Weight (Kg)	33	33

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

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