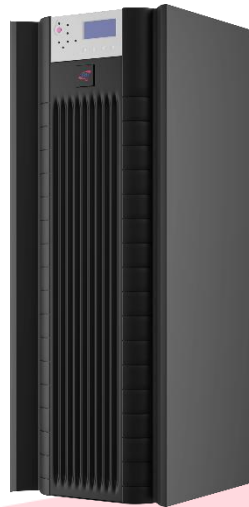


MST-Pro Series

10kVA ~ 120kVA

Online Double Conversion



Product

MST-Pro Series three phase UPS offers advanced technology that increase performance and reliability three high speed DSPs with completed digital control fully ensures high quality of power supply. High input power factor allows UPS a green energy saving power. It also offers humanisation design - full front access of service ability and user-friendly interface.

Application

- ISP (Internet Service Provider)
- IDC (Internet Data Center)
- Computing Center
- Bank
- Server Center
- Precise equipment



40-120kVA

Feature

- Support all kinds of load with high overload capability
- Fully digital control with 3 DSPs including IGBT rectifier, inverter and charger
- Digital circulating current control technology, increasing the parallel reliability
- Wide input voltage window, compatible with different utilities
- Green power technology, high input power factor, low current THD, high efficiency
- Intelligent battery management, extending battery life
- Intelligent self-diagnose function, all kinds of fault protection and large capability of history record storage
- Full front maintenance
- Redundant design of power model fans, increasing the system reliability
- Modularised design of subsystems, convenient field maintenance
- High MTBF (Mean Time Before Failure) [$>200,000h$], low MTTR (Mean Time To Repair) [$<0.5h$]
- Large LCD display, friendly human machine interface Configured with top and bottom cable connection
- Parallel up to 6 units
- Variety of options including main and bypass back feed protection, battery leakage protection, battery start kit, output isolation transformer and lighting protection kit

Model	MST-Pro10L	MST-Pro10S	MST-Pro15L	MST-Pro15S	MST-Pro20L	MST-Pro20S	MST-Pro30L	MST-Pro30S	MST-Pro40L	MST-Pro40S	MST-Pro60	MST-Pro90	MST-Pro120	
Capacity	10kVA		15kVA		20kVA		30kVA		40kVA		60kVA	90kVA	120kVA	
Input														
Grid System	3 Phases + Neutral + Ground													
Rated Input Voltage	380/400/415VAC (Line-Line)										380/400/415VAC (L-L)			
Rated Frequency	50/60Hz													
Input Voltage Range	304~478Vac (Line-Line),full load; 228V~304Vac (Line-Line),load decreases linearly according to the min phase voltage													
Input Frequency Range	40Hz~70Hz													
Input Power Factor	>0.99													
Input Current THDi	<4% (full Linear Load)				<3% (full Linear Load)									
Bypass														
Rated Bypass Voltage	380/400/415VAC (Line-Line)													
Rated Frequency	50/60Hz													
Bypass Voltage Range	Selectable, default -20%~+15%; Upper limit: +10%, +15%, +20%, +25%; Lower limit: -10%, -15%, -20%, -30%, -40%													
Bypass Frequency Range	Selectable, ±1Hz, ±3Hz, ±5Hz													
Bypass Overload	125% Long term operation; 125%~130% for 10min; 130% 150 for 1min; >150%, last for more than 300m													
Output														
Rated Inverter Voltage	380/400/415VAC (Line-Line)													
Rated Frequency	50/60Hz													
Output Power Factor	1				0.9				1					
Voltage precision	±1.5%(0-100% linear load)										±1%			
Transient Response	<5% for step load (20% - 80% -20%)													
Transient recovery	< 30ms for step load (20% - 100% -20%)										< 30ms for step load (0% - 100% - 0%)			
Output Voltage THDu	<1% (linear load); <5.5% (non-linear load) according to IEC/EN62040-3				<6 (non-linear load) according to IEC/EN62040-3				<1% linear load; <5% full non-linear load according to IEC/EN62040-3					
Inverter Overload	<110%, 60min; 110%~125%,10min; 125%~150%,1min;													
Frequency Regulation	50/60Hz±0.1%													
Synchronized Range	Settable, ±0.5Hz ~ ±5Hz, default ±3Hz													
Synchronized Slew Rate	Settable, 0.5Hz/S ~ 3Hz/s, default 0.5Hz/s													
Battery and Charger														
Battery Rate Voltage	±240VDC													
Charger Voltage precision	1%													
Charger Power	max=20% System Power													
Efficiency														
Normal Operation	95%max				>95%				>96%		>95%			
Battery Operation	94.5%max				>95%				>96%		>95%			
System														
Display	LED + LCD										LED + LCD + touch screen			
Interface	Standard: RS232, RS485 Option: SNMP, Dry Contact, Parallel kit, Battery cold start													
Environmental														
Operation Temperature	0 ~ 40 °C													
Storage Temperature	-40 ~ 70 °C													
Relative Humidity	0 ~ 95% (Non condensing)													
Noise (1 meter)	58dB @ 100% load, 52dB @ 45% load					65dB @ 100% load, 62dB @ 45% load								
Physical data														
Dimension (W*D*H,mm)	250*66 0*530	250*84 0*715	250*66 0*530	250*84 0*715	250*68 0*770	350*73 8*1335	250*68 0*770	350*73 8*1335	250*83 6*770	500*84 0*1400	600*98 0*950	600*98 0*1400	600*98 0*1400	
Weigh(Kg)	31	51.5 (without battery)	31	51.5 (without battery)	50	89 (without battery)	52	89 (without battery)	61	140	170	231	226	