



# MUST400

modular UPS

- + Local Area Networks (LAN)
- + Data Center & servers
- + Internet Centers
- + Telecommunication devices,  
Hospital, Banks,  
Emergency applications



20-200 kVA modular UPS, up to 400kVA

# Product Overview



- + MODULAR DESIGN, HOT SWAPPABLE
- + STRONG LOAD ADAPTABILITY FOR LINEAR AND NONLINEAR LOAD
- + INTELLIGENT MODULE AND SYSTEM PROTECTION DESIGN
- + LOW NOISE SYSTEM DESIGN
- + AVAILABLE PARALLEL CONTROL FOR CABINETS

**MUST400** series is modular and online double conversion UPS for sensitive equipments. The power rating covers from 20KVA to 200KVA which delivers the best of combination of reliability, functionality, hot-swappable and flexibility at a competitive price.

- + **DOUBLE DSP CONTROLLER FOR INDIVIDUAL POWER MODULE**
- + **DIGITAL CONTROL** for the whole parts including rectifier, inverter, charger and discharger
- + **IGBT MODULES RATHER THAN DISCRETE COMPONENTS ARE APPLIED IN THE POWER MODULE**
- + **INBUILT POWER DISTRIBUTION** for input and output connection
- + **LARGE TOUCH SCREEN LCD** with plenty of information
- + **INDEPENDENT CHARGER FOR BATTERIES, INTELLIGENT BATTERY MANAGEMENT SYSTEM**
- + **DIGITAL PARALLELING TECHNOLOGY,** very low circle current between modules



- + **TOTALLY FRONT ACCESS,** top and bottom cable connection
- + **EACH INDIVIDUAL MODULE IS CONFIGURED WITH INDEPENDENT CONTROLLER, AVOID SINGLE POINT FAILURE RISK**

<b>MUST400</b>			
Capacity	20-200 kVA		
<b>MAIN INPUT</b>			
INPUT VOLTAGE	380V/400V/415V (line to line) 220V/230V /240V (line to neutral)		
INPUT FREQUENCY	50/60Hz		
POWER FACTOR	>0.99		
INPUT VOLTAGE WINDOW	-40%~+25%		
FREQUENCY WINDOW	40-70HZ		
<b>BATTERY</b>			
BATTERY VOLTAGE	±240VDC		
CHARGER POWER	20KVA: 5.8A		
CHARGER VOLTAGE PRECISION	1%		
<b>BYPASS</b>			
BYPASS VOLTAGE	380V/400V/415V, line to line 220V/230V/240V, line to neutral		
BYPASS VOLTAGE WINDOW	-20%~+15%, full load		
BYPASS OVERLOAD CAPABILITY	125%, long time operation 125%< load <130%, last for more than 1 hour 130%<load<150%,last for more than 6 minutes >1000%, last for more than 100ms		
<b>OUTPUT</b>			
OUTPUT VOLTAGE	380V/400V/415V, line to line 220V/230V/240V, line to neutral		
VOLTAGE PRECISION	1% (balance load), 1.5% (unbalance load)		
VOLTAGE THD (total harmonic distortion)	THD<1.5%(linear load),THD<5%(nonlinear load)		
POWER FACTOR	0.9		
PHASE TOLERANCE	120°±0.5° (balance and unbalance load)		
CREST FACTOR	3:1		
OVERLOAD CAPABILITY	105% transfer to bypass after 1hour 110%, transfer to bypass after 10minutes 125%, transfer to bypass after 1 minutes 150%, transfer to bypass after 5 seconds >150%, transfer to bypass after 200ms		
<b>SYSTEM</b>			
SYSTEM EFFICIENCY	Normal mode: 95% ECO mode: 99%		
BATTERY MODE EFFICIENCY	95%		
DISPLAY	LCD+LED, Touch screen and keyboard		
IP CLASS	IP20		
INTERFACE (Communication ports)	RS232,RS485,Dry contacts,SNMP card,EPO,Generator interface		
INSTALLATION/CONNECTION	Top or bottom cable connection		
OPERATION TEMPERATURE	0-40°C		
STORAGE TEMPERATURE	-25°C~70°C		
RELATIVE HUMIDITY	0-95% (non-condensing)		
NOISE (dB)	<55dB		
WEIGHT (Kg)	6-module cabinet	RM120/20	151Kg
	10-module cabinet	RM200/20	182Kg
	module	PM20	22Kg
DIMENSION (W*D*H)(mm)	6-module cabinet	600*900*1600	
	10-module cabinet	600*900*2000	
	Module	440*590*134	

# G-Tec customer care

**G-TEC Service, our technical assistance facility uses highly trained engineers to provide a reliable support and after-sales service.**

**CALL CENTRE** dedicate for connection to the G-TEC Service organisation. G-TEC Service personnel are always available and ready to provide advice and assistance regarding UPS installation, maintenance, fault finding and repair.

G-TEC Service can provide assistance during commissioning and startup of the UPS equipment on-site with additional training during handover to site personnel.

**MAINTENANCE CONTRACTS** can be provided by G-TEC Service to minimise respon-

se times and repair costs. Contracts range from periodic inspections to comprehensive cover including labour and materials.

**FAST & READY:** a fast repair on site is guaranteed through the use of state-of-the-art UPS technology and the professionalism of the UPService personnel and Authorised Assistance Centres. UPService guarantees that failed parts are replaced with original ones, tested and updated in order to maintain the safety, reliability and operating characteristics of the UPS.



[www.gtec-power.eu](http://www.gtec-power.eu)

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