

MODEL	MUST400-60
Maximum system power	60 kVA / 54 kW
Module power	20 kVA / 18 kW
MAIN INPUT	
Grid system	3 Phases + Neutral + Ground
Rated voltage / Frequency	380/400/415 VAC (Phase-Phase), 50/60 Hz
Voltage range	304~478 VAC (Phase-Phase), full load 228V~304 Vac (Phase-Phase), load decreases linearly according to the min phase voltage
Frequency range	40~70 Hz (rectifier operating range)
Power factor	>0.99
Current THDi	<3%
BYPASS INPUT	
Grid system	3 Phases + Neutral + Ground
Rated voltage / Frequency	380/400/415 VAC (Phase-Phase), 50/60 Hz
Voltage range	Default: -20% ~ +20% Selectable: -40% ~ +20%
Frequency range	Selectable, ± 2.5 Hz, ± 1 Hz, ± 10 Hz, ± 20 Hz
Bypass overload	125%, long term operation 125%<load<130%, 1 hour 130%<load<150%, 6 minutes load>1000%, 100 milliseconds
OUTPUT	
Rated voltage / Frequency	380/400/415 VAC (Phase-Phase), 50/60 Hz
Power factor	0.9
Voltage THDv	<1.5% (from 0% to 100% linear load); <5% (full non-linear load according to IEC/EN62040-3)
Voltage precision	± 1.5 % (0-100% linear load)
Transient response	<5% for step load (20-80%; 100-20%)
Transient recovery	<30 ms for step load (0-100%; 100-0%)
Inverter overload	110%, 60 minutes 125%, 1 minute 150%, 5 seconds >150%, 200 milliseconds
Frequency regulation	50/60 Hz ± 0.1 %
Synchronized range	± 2 Hz (Selectable: ± 1 ~ ± 5 Hz)
Synchronized slew rate	Selectable, 0.5 Hz/S ~ 3 Hz/S, default 2 Hz/S
Crest factor	3:1
BATTERIES	
Battery rate voltage	± 240 VDC (selectable)
Number of batteries*	Standard: 40 batteries 12 V Selectable: 32-44 batteries 12 V (<36 only with reduced power, pf=0.8)
Charger voltage precision	1%
Batteries arrangement	Internal and/or external
Battery type	Pb / Ni-Cd
SYSTEM	
Efficiency	Normal operation: 95% Eco Mode operation: 99% Battery operation: 95%
Display	LED + LCD + Touch screen
Protection degree	IP20
Interface	Standard equipment: RS232, RS485, USB, dry contacts, Cold Start Optional: SNMP, parallel kit, dust filter
ENVIRONMENT	
Operating temperature	0 ~ 40 °C
Storage temperature	-40 ~ 70 °C
Relative humidity	0 ~ 95% (no condensing)
Noise (dBA at 1 meter far)	65 dB maximum
Altitude	<1000 m; load derated 1% per 100 m, from 1000 ~ 2000 m
MECHANICAL DATA	
Power module dimensions W*D*H (mm)	440*590*134
Power module weight (Kg)	22
Cabinet dimensions W*D*H (mm)	600*900*2000
Cabinet weight (Kg)	260
Colour	Cabinet: RAL 7021 textured - Door: RAL 7012

Note: technical specifications and data could be changed without notification

* Our standard battery cabinets are 20+20 batteries