

MODEL	MUST900-180-DI	MUST900-300-DI	MUST900-600-DI
Maximum system power	180 kVA / 162 kW	300 kVA / 270 kW	600 kVA / 540 kW
Module power	30 kVA / 27 kW		
<b>MAIN INPUT</b>			
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%		
<b>BYPASS INPUT</b>			
Grid system	3 Phases + Neutral + Ground		
Rated voltage / Frequency	380/400/415 VAC (Phase-Phase), 50/60 Hz		
Voltage range	Default: -20% ~ +15% Selectable: -40% ~ +25%		
Frequency range	Selectable, ±1 Hz, ±3 Hz, ±5 Hz		
Bypass overload	110%, long term operation 110%<load<125%, 5 minutes 125%<load<150%, 1 minute 150%<load<400%, 1 second load>400%, 200 milliseconds		
<b>OUTPUT</b>			
Rated voltage / Frequency	380/400/415 VAC (Phase-Phase), 50/60 Hz		
Power factor	0.9		
Voltage THDv	<1% (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	<30ms for step load (0-100%; 100-0%)		
Inverter overload	110%, 60 minutes 125%, 10 minutes 150%, 1 minute >150%, 200 milliseconds		
Frequency regulation	50/60 Hz±0.1%		
Synchronized range	Selectable, ±0.5 Hz ~ ±5 Hz, default ±3 Hz		
Synchronized slew rate	Selectable, 0.5 Hz/S ~ 3 Hz/S, default 0.5 Hz/S		
Crest factor	3:1		
<b>BATTERIES</b>			
Battery rate voltage	±240 VDC (selectable)		
Number of batteries*	Standard: 40 (20+20) batteries 12V Selectable: 32-44, if <40 a power derating must be applied		
Charger voltage precision	1%		
Batteries arrangement	External		
Battery type	Pb / Ni-Cd		
<b>SYSTEM</b>			
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		
<b>ENVIRONMENT</b>			
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		
<b>MECHANICAL DATA</b>			
Power module dimensions W*D*H (mm)	460*790*134		
Power module weight (Kg)	34		
Cabinet dimensions W*D*H (mm)	600*1100*1600	600*1100*2000	2000*1100*2000
Cabinet weight (Kg)	170	280	620
Colour	Cabinet: RAL 7021 Door: RAL 7012		

Note: technical specifications and data could be changed without notification

\* Our standard battery cabinets are 20+20 batteries