

Model # MURM120/20K

20-120KVA, 380/400/415V, 50/60Hz True Hot Swappable Modular On-line Double Conversion UPS



Product Description

MURM120/20K series is modular online double conversion UPS for sensitive equipment's. The single cabinet power rating covers from 20KVA to 120KVA which delivers the best of combination of reliability, hot-swappable and flexibility. With the latest IGBT three-level technology and DSP control, MURM120/20K achieves a high input power factor and significantly low THDi

Applications

- Critical applications where ever higher reliability is needed
- Medical & lifesaving equipment's
- Data centers & Larger computer rooms
- Industrial & Petrochemical application
- Banking & Telecommunication
- Power Generation & distribution stations

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Key Features:

- Capacities from 20kVA/20KW to 120kVA/120KW in 20kVA/20KW modular steps
- N+1 Redundancy (up to 100kVA)
- Full DSP control of high stability, reliability and safety
- Integrated IGBT module with improved performance and reduced size
- Excellent input performances for complete compatibility with input PF of 99% and
- Wide input range of voltage i.e 228V to 476V & 40-70Hz frequency window
- Self-Aging mode for full load test with less than 10% of the total power capacity needed
- Maximum availability - 'Six nines' (99.9999%) availability by uniquely combining the benefits of parallel redundancy and 'hot-swap' modularity to ensure 24/7 power availability.
- High energy efficiency total flexibility & low total cost of ownership – The combination of high energy efficiency up to 98% and scalable flexibility using 'hot-swap' modules ensures that MURM120/20K offers a low total cost of ownership.
- UPS modules can be simply added, in cost effective incremental steps as the critical load power requirement grows. This ensures the UPS is 'rightsized' at initial installation, reducing the system's initial cost, optimizing its operating efficiency and reducing ongoing operating costs.
- Smart charging management system, intelligently control the whole process of the charging and discharging effectively improve the life time of the battery
- Independent charger for batteries, intelligent battery management system
- Battery cold start, UPS can be powered on from the battery without utility
- Totally front access, top and bottom cable connection
- Friendly human machine interface with larger touch screen
- Quick and simple power upgrade or repair by 'Hot-Swapping' modules while the UPS is online maximizes availability and simplifies system upgrades
- High operating efficiency across a wide load range (90% to 95% efficiency from 25% partial load to 100% full load) reduces system running costs and site air conditioning costs, reducing CO2 emissions.
- Small footprint – 120kVA (100kVA N+1) delivering a power density of up to 380kW/m² – allowing substantial space savings even at the highest capacity requirements
- 0.99 Output power factor and 0.99 ~ unity power factor at Input side
- Low input harmonic distortion (THDi<3%)

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Product Specification

Model	MURM120/20K
Capacity	20-120KVA
Main input	
Input voltage	380V/400V/415AC
Input Frequency Range	50/60Hz
Power Factor	Full load>0.99 ,Half load >0. 98
THDi	THDi <3%
Input power soft-start function	5-30s settable
Input Voltage Ranges	228V-476V-20%- +25% Full load linear de-rating at -25% to -40%; can take 70% load at -40%
Frequency Range	40-70Hz
Battery	
Battery Voltage	±240VDC(Default), 12V Battery 40pcs can be choose
Charge Current	1 to 8.5Amp DC per module @ 480V DC bus
Charge Voltage accuracy	± 1%
Bypass	
Bypass Input voltage	380/400/415VAC 3-phase 4-wire
Voltage Ranges	Default value is -20%+15%, -40%, -30%, -10% - +10%, other ranges can be set via software
Overload Capacity	150%,long term operation,150%<load<180%,more than 1 hour ,load>1000% 100ms
Output	
Inverter Output Voltage	380/400/415VAC 3-phase 4-wire
Voltage Accuracy	± 0.5%(balanced load), ± 1% (unbalanced load)
THDi	THD<1%(linear load), THD<3%(nonlinear load)
Power Factor	1.0
Three Phase Angle accuracy	120°c ± 0.5°c
Current Crest Ratio	3:01
Overload Capacity	110% 1h, 125% 10mins, 150% 1mins, >150% 200ms
Transfer Time	0ms, 15ms(ECO Mode)

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Frequency	50Hz/60Hz (Settable)		
Mains synchronization range	±2Hz(Default value) adjustable with step of 0.5Hz within range of +/- 0.5Hz - 3Hz		
Protection Level	IP20/IP21		
System efficiency	Normal mode:95%; ECO mode:98%; Battery mode:95%		
Operation Temperature	0-40 °c		
Storage Temperature	-25 °c -70 °c (without battery)		
Humidity	0-95%(no-condensing)		
Noise(dB)	55-62dB,Adjusted with load		
Cabinet	10 module cabinet	MURM120/20	151KG
Power Module	module :PM20	20KVA power module :22KG	
Dimension(WxDxH)mm	10 module cabinet	600*900*1600	
	power module	440x590x134	
COMMUNICATIONS			
Communications Interface	RS232 Serial; Slot for SNMP/Web interface, parallel interface		
Network Management Cards	SNMP-UP2, Dry contacts (optional)		
Software compatibility	Windows family all versions, Linux, Sun Network OS, IBM Aix, Compaq Tru64 SGI IRIX, FreeBSD, HP-UX and MAC		
UPS monitoring Software	Supplied along with UPS. Optional SNMP card with web based available on request		
Communications Cable	RS232 serial		
CERTIFICATIONS & WARRANTY			
UPS Certifications	CE, EN/IEC 62040-1:2008, EN/IEC 62040-2:2006, EN/IEC 61000-3-3:2013, EN/IEC 61000-3-2:2014		
UPS Quality standards	ISO9001:2015, ISO14001:2015, RoHs		
Product Warranty Period (Worldwide)	2-years limited Warranty		