

MSII RT 3/1

MSII RT 3/1 TECHNICAL DATA SHEET

MODEL		MSII 10000 RT 3/1		MSII 15000 RT 3/1		MSII 20000 RT 3/1	
POWER	VA	10000		15000		20000	
	W	9000		13500		18000	
INPUT	Rated voltage*	277 - 485 Vac		190 - 485 Vac			
	Rated frequency	45 - 65 Hz		45 - 70 Hz			
	Power factor	>0.99					
OUTPUT	Rated voltage	200/208/220/230/240 Vac selectable					
	Voltage distortion	<3% with linear load, <7% with distorting load					
	Voltage stability	±1%					
	Frequency	50/60 Hz (selectable)					
	Frequency stability	≤0.2% (free running)					
	Power factor	0.9					
	Crest factor	3:1					
	Waveform	Pure sine wave					
	Output connection	Terminal blocks					
	EFFICIENCY	VFI mode	Up to 93%				
ECO mode		Up to 95%					
GENERAL	Dimensions (WxDxH) mm		440x680x132 (3U)		440x720x220 (5U)		
	Weight (kg)		28		36		
	Alarms		Audible and visual alarm alerts for: power failure, low battery, bypass transfer, and UPS fault.				
	Protection		Overload, overheating, short circuit, deep discharge, battery overcharging.				
	Operating mode		Multi-mode: VFI, ECO, frequency converter (CVCF)				
	Cold start from the battery without mains power		Included				
	Parallel connection		Up to 4 units for 3+1 redundancy				
BATTERY	Battery type		12V VRLA, AGM (maintenance-free lead)				
	Number per string		20				
	Uptime with battery (in min).	50% load	Depends on the external battery cabinets				
		100% load	Depends on the external battery cabinets				
	Charging time (90%)		6 hours				
Battery expansion module dimensions (WxDxH) **		440x680x132 (3U)		440x680x132 (5U)			
ENVIRONMENTAL PARAMETERS	Operating temperature***		0 - 40°C				
	Relative humidity		95% (non-condensing)				
	Altitude (a.s.l.)		<1000 m with no power derating, >1000 m with 1% derating for every 100 m.				
	Audible noise at 1 m.		≤50 dBA		≤60 dBA		
CONNECTIVITY	Built-in communication ports		RS232, EPO, additional slots for optional cards				
	User interface		LCD and function keys (parameters: voltage, frequency, load percentage, battery voltage, output voltage, UPS temperature).				
	Optional accessories		Cards: SNMP, USB, RS485 ModBus, dry contact relays				
	Compatible software platforms		Microsoft Windows, Linux, Mac OS, VMware				
REGULATIONS	Standards		IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3				
	Marking		CE, UKCA				

* Depending on the load ** Battery weight and configuration depends on the required uptime *** To be verified according to the battery parameters