

Mars II Series Redundancy On-Line UPS 4500 ~ 20000VA

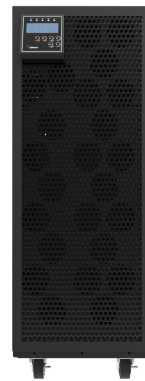
Application

Small Office
NAS system
IT/Network Server
Security Server

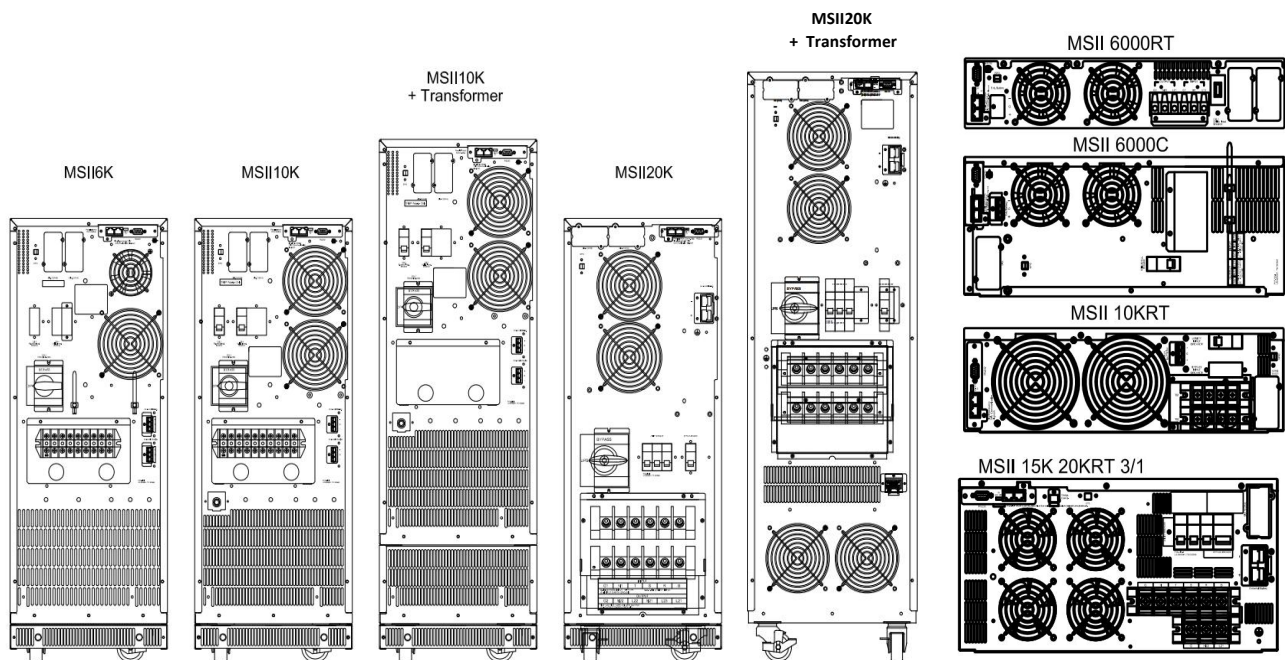


Feature

True On-line Double Conversion Topology
Full-time Digital Signal Processor Control
0.9 Output Power Factor
Multiple Operation Mode
LCD Mimic Panel
Remote Emergency Power Off (REPO)
Power Range and Runtime Scalability
Maintenance Bypass Switch Embedded
Simple Parallel Installation
Compact Design
Output Galvanic Isolation Transformer (Option)
Hot Swappable Battery (Option)



Rear Panel



Specification

MODEL	TOWER		MSII 4500 / 4500C	MSII 6000 / 6000C	MSII 8000 / 8000P	MSII 10000 / 10000P	MSII 15000P	MSII 20000P
	RT		MSII 4500RT	MSII 6000RT	MSII 8000RT / 8000RTP	MSII 10000RT / 10000RTP	MSII 15000RTP	MSII 20000RTP
INPUT	Phase		(1Φ) Line + Neutral + Ground		(1Φ) Line + Neutral + Ground / (3Φ) R, S, T + Neutral + Ground		(3Φ) R, S, T + Neutral + Ground	
	Voltage Range(VAC)**		160 ~ 280VAC (1Φ)		160 ~ 280VAC (1Φ) / 277 ~ 485VAC (3Φ)		277 ~ 485VAC (3Φ)	
	Frequency Range(Hz)		45 ~ 65Hz (auto sensing)					
	Input Current Distortion		4.5K ~ 10K 1Φ: < 6% @ 100% linear load (w/o transformer) 8K ~ 10KP 3Φ: < 30% @ 100% linear load (w/o transformer)					< 30% @ 100% linear load (w/o transformer)
	Input Power Factor		≧ 0.99 (1Φ) / ≧ 0.95 (3Φ) @ nominal voltage 100% linear load					
OUTPUT	Capacity(VA/W)		4500 / 4050	6000 / 5400	8000 / 7200	10000 / 9000	15000 / 13500	20000 / 18000
	Voltage(VAC)***		230VAC, adjustable to 200 / 208 / 220 / 230 / 240VAC, 208 / 120VAC (option for 4500 ~ 10000VA)					
	Output Power Factor***		0.9					
	Output Voltage Distortion		< 3% @ 100% linear load (w/o transformer)					
			< 7% @ 100% non-linear load (w/o transformer)					
	Output Voltage Regulation		± 2%					
	Frequency Range(Hz)		50 / 60Hz ± 1Hz or ± 3Hz (selectable)					
	Frequency Stability @ Inverter Free-Running		± 0.2%					
	Crest Factor Ratio		3:1					
	Output Waveform		Pure sine wave					
	Transfer Time	Line to Backup	0ms					
		Inverter to Bypass	static bypass 0ms / manual bypass < 2ms					
EFFICIENCY	Line Mode		Up to 91% (w/o transformer)					
	High Efficiency Mode		Up to 92% (w/o transformer)		Up to 93% (w/o transformer)		Up to 96% (w/o transformer)	
BATTERY	Battery Type		VRLA, sealed lead acid maintenance free					
	Capacity and Number	TOWER	4.5K & 6K: 12V / 7Ah x 20 4500C & 6000C: 12V / 5Ah x 20		12V / 7Ah x 20	12V / 9Ah x 20	12V / 9Ah x 60 EBC (Option) 12V / 12Ah x 40 EBC (Option)	
		RT (Option)	12V / 7Ah x 20 EBC		12V / 7Ah x 20 EBC	12V / 9Ah x 20 EBC	12V / 9Ah x 20 EBC	
	Voltage(Vdc)		240					
	Typical Charger Time		4 hours recover to 90% capacity				6 hours recover to 90% capacity	
INDICATOR	Status on LED + LCD		Normal / Backup / ECO / Bypass mode, Battery Low/Weak/Disconnect, Overload, Transferring with Interruption, UPS Fault					
	Readings on LCD		Input / Output volatge, Input / Output frequency, Load percentage, Battery voltage, Inner cabinet temperature, Status / Error message					
	Self-Diagnostics		Upon power-on, Front panel setting and Software control, 24Hours routine check					
ALARM	Audible or Visual		Line failure, Battery low, Transfer to bypass and System fault					
PROTECTION	Full Protection		Overload, Over temperature, Short circuit, ABDM, Overcharge and EPO					
FUNCTION	Multi-Mode		Normal / ECO / CVCF					
	DC Start		Yes					
	Parallel Capacity		Up to 4 units					
	Parallel Redundancy		3+1					
PHYSICAL	Dimensions (WxHxD in mm/inch) (Standard / Hot Swappable / RT Type)	w/o Transformer	4.5K & 6K: 290 x748 x 645 / 11.5 x 29.5 x 25.4 4500C & 6000C: 440 x 176 x 680 / 17.3 x 6.9 x 26.8		290 x748 x 645 / 11.5 x 29.5 x 25.4			
		with Transformer	290 x 748 x 645 / 11.5 x 29.5 x 25.4		290 x 881 x 645 / 11.5 x 34.7 x 25.4		320 x 1018 x 670 / 12.6 x 40 x 26.4	
		RT	Standard Type: 440 x 88 x 680 / 17.3 x 3.5 x 26.8 Short Type: 440 x 132 x 550 / 17.3 x 5.2 x 21.7		440 x 132 x 680 / 17.3 x 5.2 x 26.8		440 x 220 x 720 / 17.3 x 8.7 x 28.4	
	Ref Net Weight (kgs/lbs) (Standard / Hot Swappable / RT Type)	w/o Transformer	4.5K & 6K: 86 / 190 4500C & 6000C: 52 / 115		8K: 87 / 192	10K: 96 / 212	60 / 133	
		with Transformer	139 / 307		8KP: 92 / 203	10KP: 101/223	151 / 332	
					8K: 140 / 309	10K: 149 / 329		
		RT	Standard Type: 24 / 53 Short Type: 17.5 / 39		8K/10K: 26 / 58 8KP/10KP: 28 / 62		36 / 80	
	Dimensions (WxHxD in mm/inch) (Mini Tower 1Φ/1Φ Model)	w/o Transformer	440 x 220 x 630 / 17.3 x 8.7 x 24.8				—	
	Ref Net Weight (kgs/lbs) (Mini Tower 1Φ/1Φ Model)	w/o Transformer	71.5 / 158		8K/10K: 74.5 / 165		—	
	Dimensions (WxHxD in mm/inch) (Mini Tower 3Φ/1Φ Model)	w/o Transformer	—		—		290 x 748 x 503 / 11.5 x 29.5 x 19.8	
Ref Net Weight (kgs/lbs) (Mini Tower 3Φ/1Φ Model)	w/o Transformer	—		—		42 / 93		
ENVIRONMENT	Operation Temperature		0 ~ 40°C / 32 ~ 104℉					
	Storage Temperature		-10 ~ 50°C / 14 ~ 122℉					
	Operation Humidity		90%RH, non-condensing					
	Altitude		2000m / 6562ft without derating					
	Noise Level		≧ 50dBA @ 1 meter front				≧ 60dBA @ 1 meter front	
COMMUNICATION	Standard		RS-232					
	Interface (Option)		2nd RS-232, USB, RS485, Dry contact relay, SNMP/WEB card					
	Compatible Platforms		Microsoft Windows series, Linux, Mac, etc.					
STANDARDS & CERTIFICATIONS**	Safety		EN62040-1-1, UL1778				EN62040-1-1	
	EMC		EN62040-2, EN61000-3-4, EN61000-3-5, FCC Class A				EN62040-2, EN61000-3-4, EN61000-3-5	
	Marks		CE, cUL, UL ***				CE	

* Specifications subject to change without notice, and the final explanation rights are reserved by AblereX.

** Baresed on load precentage.

*** The same technical specification may be sold in diferent countries under different model names, please consult AblereX for more information.

**** Battery capacity can be changed.