## **Mars III Series High Performance Redundancy On-Line UPS**

MSIII Tower (MSII PLUS) 4500VA~10000VA MSIII RT (MSII PLUS RT) 4500VA~10000VA



- Rack/Tower Convertible Design
- Power Factor 1.0
- Patent Backup Runtime Estimation
- Flexible Battery Configuration
- Easy Parallel Installation
- Frequency Converter Operation Mode
- Smart ECO Mode
- Generator Compatible Mode
- Full-time Digital Signal Processor (DSP) Control
- LCD Mimic Panel
- Power Range and Runtime Scalability
- Optional Galvanic Isolation Transformer Module / MTBS Box







MSIII6000RT 4U





## MSIII 4.5/6KVA (with TR) MSIII 8/10KVA (with TR)

MODEL			MSIII 4.5K / MSIII-RT 4.5K	MSIII 6K / MSIII-RT 6K	MSIII 8K / MSIII-RT	8K MSIII 10K / MSIII-RT 10	
	Phase			1Φ, Line + Neι	utral + Ground		
	Voltage Range**			110-28	6KMSIII 8K / MSIII-RT 8KMSIII 10K / MSI+ Neutral + Ground110-280 VAC40-60Hz50-70Hz≤5%.99 @Linear Load20 or 115/230 or 120/240121 00% Linear load0.0.9) ≤ 7% @ 100% non-linear load(PF=0.7)±1%±3%±3Hz (Selectable)3:1re Sine Wave98%98%98%98%98%98%98%016/18/20aintenance Free Lead Acid4hoursN/ACC-CV), 1.7A(max.)CO Mode, Bypass Supply, Battery Low, and Transferring with interruption & UPS Fault put Voltage, Output Current, Output Frequency, nen remperature, Backup time estimation ypanel & communication, self routine check t/ Transfer to Bypass / System Faulture, Short circuit, ABDM, overcharge nal/ ECO/ CVCF Yesyesup to 4 units3+1288x509x700 / 11.3x20x27.691/200288x657x700 / 11.3x20x27.6133 / 293.2440x132x665 / 17.3x5.2x26.021.5/47.4N/A133 / 293.2440x132x665 / 17.3x5.2x26.058 / 127.90°C/ 32-104°F1 (Without condensing)80ft without Derating≤ 60dBA @ 1 Meter 3B, EPO/ROODry Contact Relay, SNMP/WEB Cardws series, Linux, Mac, etc.		
Innut	Frequency Bange	Output 50Hz		40~6			
		Output 60Hz 50~70Hz			$\begin{array}{c c c c c c c c c } 2 & & & & & & & & & & & & & & & & & & $		
	Input Current Dist	ortion		5	MSIII 8K / MSIII-RT 8K MSIII 10K / MSII tral + Ground VAC		
	Input Power Facto	or	450014/450014	Up to 0.99 @	Linear Load		
	Capacity	a the set Tree of second	4500VA/4500W	6000VA/6000W	8000VA/8000W	10000VA/10000W	
	Voltage	without Transformer 120/208/220/230/240 vac, seliable					
	Output Power Factor***			120/200 01 110/220 0	1115/230 01 120/240		
	Output i ower i ac				Φ, Line + Neutral + Ground   110-280VAC   40-60Hz   50-70Hz   ≤5%   Up to 0.99 @Linear Load   6000W 8000V/X8000W   100220 or 115/230 or 120/240   208/220/230/240Vac, settable   or 110/220 or 115/230 or 120/240   ad(PF=0.9) ≤7% @ 100% non-linear load(PF=0.7)   ±1%   ±3%   £1Hz or ±3Hz (Selectable)   3:1 Pure Sine Wave   95%   16/18/20   aled Maintenance Free Lead Acid   4hours N/A   Setep(CC-CV), 1.7A(max.)   ode, ECO Mode, Bypass Supply, Battery Low.   erload, and Transferring with interruption & UPS Fault   y, Output Voltage, Output Current, Output Frequency   voltage, Inner Temperature, Backup time estimation   ontrol by panel & communication, self routine check   ery Low / Transfer to Bypass / System Fault   mperature, Short circuit, ABDM, overcharge   Normal/ ECO/ CVCF   Yes   up to 4 units   3+1   288x657x700 / 11.3x20x27.6   91/200   288x657x700 / 11.3x25.2x26.1		
Output	Output Voltage Di	stortion	<u>≤3% @ 100</u>	6 non-linear load(PF=0.9)		near load(PF=0.7)	
_	Output Voltage	without Transforme	r	±1			
	Regulation	with Transformer		±3	%		
	Frequency Range	(Synchronized Range	±1Hz or ±3Hz (Selectable)				
	Crest Factor		3:1				
	Output Waveform		Pure Sine Wave				
Efficiency -	Line Mode	without Transforme	r 93%			94%	
		with Transformer	90%			91%	
	High Efficiency	without Transforme	r	98	%		
	Mode	with Transformer	94%	0/00		95%	
-	Number of Battery		12/14/16/1	8/20	16	/18/20	
	Battery Type VRLA, Sealed Maintenance Free Lead Acid						
sattery _	Recharge Time (to	0.90%)	MSIII 4.5K / MSIII-RT 4.5K   MSIII 6K / MSIII-RT 6K   MSIII 6K / MSIII-RT 8K     10, Line + Neutral + Ground   110,280/AC     16, Une + Neutral + Ground   110,280/AC     16, Une + Neutral + Ground   110,280/AC     16, Une + Neutral + Ground   110,280/AC     16, Up to 0.99 € Linear Load   55%     Up to 0.99 € Linear Load   55%     1   200/206/220/230/240/ac, settable     ransformer   22% € 100% Inchalled     1   22% € 100% Inchalled     1   53% @ 100% non-linear load     1   33     mized Range)   ±11k or ±3Hz (Selectable)     3:1   Fure Sine Wave     1   1     1   1     1   Gene Sine Wave     1   1     1   1     1   1     1   1     1   1     1   1     1   1     1   1     1   1     1   1     1   1	NI/A			
	Charger	16/18/20 Model	2-step(CC-CV),	2-ston(CC-CV	() 1.74(max)	IV/A	
	Status On LED +	LCD	Line Mo Battery Bad/	ode, Backup Mode, ECO Mo Disconnect Overload and T	inear Load 8000VA/8000W 10000VA/10000W 10000VA/10000W 10000VA/10000W 115/230 or 120/240 Linear load ≤7% @ 100% non-linear load(PF=0.7) Selectable) Wave 94% 91% 16/18/20 nce Free Lead Acid rs N/A 1.7A(max.) te, Bypass Supply, Battery Low, ansferring with interruption & UPS Fault age, Output Current, Output Frequency, Temperature, Backup time estimation & communication, self routine check sfer to Bypass / System Fault ort circuit, ABDM, overcharge D/ CVCF 288x509x700 / 11.3x20x27.6 91/200 288x657x700 / 11.3x25.9x27.6 133 / 293.2 440x132x685 / 17.3x5.2x26.0 21.5/47.4 N/A N/A 440x132x660 / 17.3x5.2x26.0 58 / 127.9 ~104°F out condensing) hout Derating ≤ 60dBA @ 1 Meter )/ROO ntact Relay, SNIMP/WEB Card es, Linux, Mac, etc.		
- Display	Deadings On LCC		Input Voltage, Input Frequency, Output Voltage, Output Current, Output Frequency,				
	tage, Battery Voltage, Inner Temperature, Backup time estimation						
	Self-Diagnostics		Upon Powe	r-on, Manual control by pan	el & communication, s	MSIII-RT 8K MSIII 10K / MSIII-RT   d MSIII 10K / MSIII-RT   d 10000VA/10000   ble 120/240   120/240 9000000000000000000000000000000000000	
Alarm	Audible or Visual		Line	e Failure / Battery Low / Tra	nsfer to Bypass / Syst	em Fault	
Protection	Full Protection		Ove	rload, Over temperature, Sl	hort circuit, ABDM, ove	ercharge	
	Multi-Mode	Normal/ ECO/ CVCF					
- 	DC start	Yes					
-unction	Parallel capacity	ty up to 4 units					
	Parallel redundan	cy		3+	-1		
	Tower Model	Dimensions (WyHyD_mm/inch)	240x509x700	9.5x27.6x20	288x509x	700 / 11.3x20x27.6	
	(with Batt)	Net Weight (kgs/lbs	s) 76/1	67		91/200	
	Tower Model	Dimensions	240x657x700	9 5x25 9x20	288x657x7	00 / 11 3x25 9x27 6	
	(with Transformer	(WxHxD, mm/inch)	240,007,41007	0.0.20.0.20	200700777	00 / 000 0	
	& Batt)	Net Weight (kgs/lbs	s) 119/2	262.3	6K   MSIII 8K / MSIII-RT 8K   MSIII 10K / MSII     + Neutral + Ground   10-280VAC   40-60Hz     10-280VAC   40-60Hz   50-70Hz     ≤5%   99 @ Linear Load   10000VA/10     //230/240Vac, settable   220 or 115/230 or 120/240   1     100% Linear load   0.9)   ≤7% @ 100% non-linear load(PF=0.7)     ±1%   ±3%   ±3Hz (Selectable)     3:1   re   site     re   94%   91%     98%   95%   16/18/20     atheurs   N/A   CCV), 1.7A(max.)     N/A   CCV), 1.7A(max.)   N/A     C-CV), 1.7A(max.)   N/A   N/A     C-CV), 1.7A(max.)   Optopk Linear load, N/A   N/A     C-CV), 1.7A(max.)   Supply, Battery Low, and Transfer to Bypass / System Fault   re     y an=I & communication, self routine check   // Transfer to Bypass / System Fault   yres     y to 4 units   3+1   2   288x659x700 / 11.3x20x27.6     91/200   288x657x700 / 11.3x20x27.6   91/200     288x659x700 / 11.3x20x27.6   91/200	337293.2	
Physical	BT Model	(WxHxD, mm/inch)	440x88x685 / 1	7.3x3.5x26.0		685 / 17.3x5.2x26.0	
		Net Weight (kgs/lbs	s) 18.5 /	40.8		21.5/47.4	
	RT Model		440x176x685 /	17.3x6.9x26.0		N/A	
	(with Battery)	Net Weight (kgs/lbs	60/132.3	5Ahx20)		N/A	
	DT Transformar	Dimensions	440×88×660 / 3	7 242 5426 0	440v120v4	260 / 17 2v5 2v26 0	
	Module	(WxHxD, mm/inch)	440,888,0007	7.383.3820.0	44081328	50/1070	
		Net Weight (kgs/lbs	s) 42/9	92.6		p8 / 127.9	
	Operation Temper			0~40°C/3	thout condensing		
nvironmental -	Altitude		20%~95%HH (Without condensing)				
	Noise Level			0 1 Meter		58 / 127.9 04°F it condensing) ut Derating ≤60dBA @ 1 Meter	
	Standard				≧600	16/18/2016/18/20e Lead AcidN/Ahax.)ass Supply, Battery Low, ng with interruption & UPS Faulttput Current, Output Frequency, ature, Backup time estimation munication, self routine checkBypass / System Faultit, ABDM, overchargeE288x509x700 / 11.3x20x27.6 91/200288x657x700 / 11.3x25.9x27.6133 / 293.2440x132x685 / 17.3x5.2x26.021.5/47.4N/A440x132x660 / 17.3x5.2x26.058 / 127.9densing) rrating $\leq$ 60dBA @ 1 Meterelay, SNMP/WEB Card	
terface -	Option		2nd [	35232, USB, BS485, Dp/ C	ontact Relay_SNMP/	VFB Card	
	Compatible Platfo	rms	2101	microsoft Windows se	eries, Linux, Mac. etc.		
	Safety			EN62040-	1. UL1778		
tandards and –	EMC		EN62040-2, FCC part 15 Class A, EN61000-2-2, EN61000-3-2/3.				
ertifications****	Marks						
		Battor	v Bank Spec	ifications			
IPS model	Code		y Dank Spec	Max Battory Out	antitios Dim	ansions(HyWyD mm	
				wax Dattery Qu			
ISIII 4.5K~10K Tower	B1602403		20	60	700	x268x657/27.6x11.3x25.9	
MSIII 4.5K~6K RT	BC202406		20	20	88x	440x483.5 / 3.5x11.3x26.9	

UPS model	Code	Max Battery number / String	Max
MSIII 4.5K~10K Tower	BT602403	20	
MSIII 4.5K~6K RT	BC202406	20	
MSIII 8K~10K RT	BC202403	20	

Specifications

\* Specifications subject to change without notice, and the final explanation rights are reserved by Ablerex. \*\* Depending on load percentage : 176-280 VAC, without derating ; 160-176 VAC, derating to 75% Load ; 110-160 VAC, derating to 50% Load \*\*\* Max. depending on number of battery. PF:1.0-10K(20S),6K(20S/18S/16S) ; PF:0.9/0.8-10K(18S),6K(14S) ; PF:0.7-10K(16S),6K(12S) \*\*\*\* Depending on the model and voltage, more information please contact with Ablerex.

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132x440x685 / 5.2x11.3x27

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