Amberwave MS III Tower MORE POWER, EFFICIENCY AND REDUNDANCY



Perfect for







Telecom



Critical loads



Healthcare



Industry



Features

- kW = kVA More available power than any other UPS of the same category
- 4 units parallel, 3+1 redundancy possibility with parallel kit
- Generator compatibility to guarantee efficient functioning
- Dual input
- Flexible battery configuration to best adapt to your needs
- Precise back-up time estimation
- Multiple operation modes to maximize energy efficiency
- Flash upgradable firmware for updates and customization
- Hot swap batteries
- Remote EPO and On/Off functions
- USB, communications slot
- Manually activated extra service check

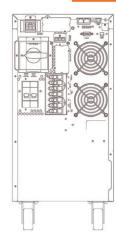
Options

- USB card, RS485 card, dry contact relay card, SNMP/web card
- Extra RS232 card
- External battery cabinet
- External bypass switch
- Different outlets

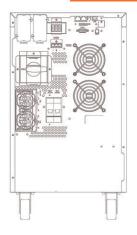
Specification

Model			MSIII 6000	MSIII 10000
	Phase		Single Ph	nase
Inputs	Voltage Range*		110~280Vac	
	Frequency Range		45~70Hz	
	Input Current Distortion		3%	
	Input Power Factor		Up to 0.99 @ Linear load	
	Capacity		6000VA/6000W 10000VA/10000W	
	Voltage	without transformer	220/208/220/230/240 Vac, settable	
		with transformer	120/208 or 110/220 or 115/230 or 120/240 Vac	
	Output Power Factor **		1	
Output	Output Voltage Distortion		≤2% @ 100% Linear load ≤7% @ 100% Non-Linear load	
Output	Output Voltage without transformer		±1%	
	Regulation with transformer		±3%	
	Frequency Range		±1Hz or ±3Hz (selectable)	
	Crest Factor		3:1	
	Output Waveform		Pure SineWave	
Efficiency	Online Mode		Up to 94%	
Lincichey	ECO Mode		98%	
Physical	with batteries	Dimensions (WxHxD, mm)	240x513x700	288x513x700
		Net Weight (kg)	78	93
	with trans- former	Dimensions (WxHxD, mm)	240x661x700	288x661x700
	& batteries	Net Weight (kg)	121	135
Battery	Number		16/18/20 (12/14 optional)	16/18/20
	Autonomy time at 100% with internal batteries (min)		Up to 8	Up to 4
	Autonomy time with internal ba		Up to 12	Up to 6
	Туре		VRLA, Sealed maintena	ince free lead acid
	Recharge Time (to 90%)		4hours	
	Charger		2-step (CC-CV), 1.7A (max.)	
		Code	BT60240	037
	Battery	Max battery n°/string	20	
	Battery Cabinet	Max battery n°/string Max battery quantities	20 60	
	•	Max battery n°/string		
	•	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm)	60	x663 O mode, bypass supply,
Display	Cabinet	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD	60 288x661x Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input frequence output current, output frequence	x663 O mode, bypass supply, nnect, overload, UPS fault ency, output voltage, y, load percentage, battery
Display	Cabinet Status on LED	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD	288x661) Line mode, backup mode, EC battery low, battery bad/discort Input voltage, input frequency output current, output frequency voltage, inner temperature, but a control of the con	x663 O mode, bypass supply, nnect, overload, UPS fault ency, output voltage, y, load percentage, battery packup time estimation
Display	Cabinet Status on LED	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD	60 288x661x Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input frequence output current, output frequence	x663 O mode, bypass supply, nnect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel &
Display	Status on LED Readings on Le	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD	60 288x661x Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input frequence output current, output frequence voltage, inner temperature, but on power-on, manual	x663 O mode, bypass supply, nnect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel & froutine check
	Status on LED Readings on Le Self-Diagnostic	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD	288x661x Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input freque output current, output frequenc voltage, inner temperature, b Upon power-on, manual communication, sel	x663 O mode, bypass supply, nnect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel & f routine check er to bypass/System fault
Alarm	Status on LED Readings on Leg Self-Diagnostic Audible or visu	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD	288x661x Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input frequence output current, output frequence voltage, inner temperature, b Upon power-on, manual communication, sel Line failure/Battery low/Transf	x663 O mode, bypass supply, nnect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel & f routine check er to bypass/System fault short circuit, overcharge
Alarm Protection	Status on LED Readings on Legardings on Leg	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD	288x661x Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input frequence output current, output frequence voltage, inner temperature, b Upon power-on, manual communication, sel Line failure/Battery low/Transf Overload, over temperature, se	x663 O mode, bypass supply, nnect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel & f routine check er to bypass/System fault short circuit, overcharge
Alarm	Status on LED Readings on Legardary Self-Diagnostic Audible or visue Full Protection Multi-mode	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD cs	288x661x Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input frequenc voltage, inner temperature, b Upon power-on, manual communication, sel Line failure/Battery low/Transf Overload, over temperature, s Normal/ ECO/ Frequence	x663 CO mode, bypass supply, nect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel & f routine check er to bypass/System fault short circuit, overcharge lency converter
Alarm Protection	Status on LED Readings on Legardings on Leg	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD cs al	288x661x Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input frequenc voltage, inner temperature, b Upon power-on, manual communication, sel Line failure/Battery low/Transf Overload, over temperature, s Normal/ ECO/ Frequ	x663 CO mode, bypass supply, nenect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel & f routine check er to bypass/System fault short circuit, overcharge lency converter
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Alarm Protection Function	Cabinet Status on LED Readings on Let Self-Diagnostic Audible or visu Full Protection Multi-mode DC start Parallel capaci Parallel redunc	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD cs tal tty dancy perature	288x661x Line mode, backup mode, EC battery low, battery bad/discording input voltage, input frequence voltage, inner temperature, but upon power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, over temperature, such power-on, manual communication, selfune failure/Battery low/Transfore Overload, selfune failure/Battery low/Transfore Ov	x663 CO mode, bypass supply, nect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel & froutine check er to bypass/System fault short circuit, overcharge lency converter optional) CC
Alarm Protection	Status on LED Readings on Le Self-Diagnostic Audible or visu Full Protection Multi-mode DC start Parallel capaci Parallel redunc Operation Tem Operation Hum Altitude	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD cs tal tty dancy perature	288x661x Line mode, backup mode, EC battery low, battery bad/discord Input voltage, input frequence voltage, inner temperature, but Upon power-on, manual communication, sel Line failure/Battery low/Transf Overload, over temperature, sel Normal/ ECO/ Frequence Ves Up to 4 units (3+1 (optic 0~40°)	x663 O mode, bypass supply, nect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel & froutine check er to bypass/System fault short circuit, overcharge lency converter optional) C condensing)
Alarm Protection Function	Status on LED Readings on Legardings on Leg	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD cs tal tty dancy perature	288x661x Line mode, backup mode, EC battery low, battery bad/discording to the lattery low, battery bad/discording to the lattery low, battery bad/discording to the lattery low, battery low, trends communication, selform lattery low/Transform Overload, over temperature, some lattery low/Transform lattery l	condensing) condensing)
Alarm Protection Function	Status on LED Readings on Le Self-Diagnostic Audible or visu Full Protection Multi-mode DC start Parallel capaci Parallel redunc Operation Tem Operation Hum Altitude	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD cs tal tty dancy perature	288x661x Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input freque output current, output frequenc voltage, inner temperature, b Upon power-on, manual communication, sel Line failure/Battery low/Transf Overload, over temperature, s Normal/ ECO/ Frequ Yes Up to 4 units (3+1 (optic 0~40° 0%~90% (without 1000m withou	condensing) condensing)
Alarm Protection Function	Status on LED Readings on Le Self-Diagnostic Audible or visu Full Protection Multi-mode DC start Parallel capaci Parallel redunc Operation Tem Operation Hum Altitude Noise Level	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD cs tal tty dancy perature	60 288x661x Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input frequence voltage, inner temperature, be Upon power-on, manual communication, sel Line failure/Battery low/Transf Overload, over temperature, sel Normal/ ECO/ Frequence Yes Up to 4 units (3+1 (option 0~40° 0%~90% (without 1000m without ≤60dBA @ 1	20 mode, bypass supply, nnect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel & froutine check er to bypass/System fault short circuit, overcharge lency converter optional) condensing) t derating meter Comm. Slot d, SNMP/Web card, RS232
Alarm Protection Function Environmental	Status on LED Readings on Let Self-Diagnostic Audible or visu Full Protection Multi-mode DC start Parallel capaci Parallel redunc Operation Tem Operation Hum Altitude Noise Level Standard	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD cs tal dancy perature midity	60 288x661x Line mode, backup mode, EC battery low, battery bad/discording to the large output current, output frequency voltage, inner temperature, but upon power-on, manual communication, sel Line failure/Battery low/Transf Overload, over temperature, selection over temperatu	20 mode, bypass supply, nnect, overload, UPS fault ency, output voltage, y, load percentage, battery backup time estimation control by panel & f routine check er to bypass/System fault short circuit, overcharge tency converter optional) cc condensing) t derating meter Comm. Slot d, SNMP/Web card, RS232
Alarm Protection Function Environmental Interface	Status on LED Readings on Le Self-Diagnostic Audible or visu Full Protection Multi-mode DC start Parallel capaci Parallel redunc Operation Tem Operation Hum Altitude Noise Level Standard Option Compatible pla Safety & EMC	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD cs tal dancy perature midity	Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input frequence voltage, inner temperature, but Upon power-on, manual communication, sel Line failure/Battery low/Transf Overload, over temperature, support of 4 units (3+1 (optic 0~40° 0%~90% (without 1000m without 1000m without USB, EPO/ROO, 00 RS232, RS485, Dry contact card	condensing) condensing)
Alarm Protection Function Environmental	Status on LED Readings on Le Self-Diagnostic Audible or visu Full Protection Multi-mode DC start Parallel capaci Parallel redunc Operation Tem Operation Hum Altitude Noise Level Standard Option Compatible pla	Max battery n°/string Max battery quantities Dimensions (WxHxD, mm) + LCD CD cs tal dancy perature midity	Line mode, backup mode, EC battery low, battery bad/discor Input voltage, input frequence voltage, inner temperature, but Upon power-on, manual communication, sel Line failure/Battery low/Transf Overload, over temperature, support of the self-discording in the self-discordi	condensing) to derating meter condensing) condensing) to derating meter comm. Slot d, SNMP/Web card, RS232 deries, Linux, Mac C EN 62040-2 040-3

AMB MSIII 6000



AMB MSIII 10000



Depending on load percentage: 176-280VAC, without derating; 160-176VAC, derating to 75% load, 110-160VAC, derating to 50% load Depending on battery number