

# Amberwave MS II

1/1 MINITOWER – 3/1 TOWER SERIES  
COST EFFECTIVE PROTECTION

6000VA ~ 20000VA



## Perfect for



IT & Servers



Commercial



Networking



Industry

## Features

- Online protection with 0.9 power factor
- LCD display
- Multiple operation modes to maximize energy efficiency
- Parallelable up to 4 units
- RS232 and USB connection
- Cold start
- Generator compatibility
- Simplified installation
- Remote EPO function

## Options

- Communication slot for MT
- Isolation transformer
- External manual bypass
- RS232, RS485, dry contact relay card, SNMP/web card

# Specification

Model	MSII 6000MT	MSII 10000MT	MSII 10000 3/1	MSII 20000 3/1	
<b>Inputs</b>	Voltage*	160~280Vac (1phase)		277~485Vac (3phase)	
	Frequency	45~65Hz			
	Phase	Single Phase		Three Phase + Neutral	
	Power Factor	Up to 0.99			
<b>Output</b>	Voltage	200/208/220/230/240 Vac Selectable			
	Capacity	5400W	9000W	9000W	18000W
	Frequency (Battery Mode)	±1Hz or ±3Hz (selectable)			
	Current crest ratio	3:1			
	Harmonic distortion	<3% at Linear Load			
	Output waveform	Pure SineWave			
	DC start	Yes			
<b>Efficiency</b>	Online Mode	Up to 91%			
	ECO Mode	Up to 98%			
<b>Physical</b>	Dimensions (W x H x D, mm)	220x508x630		290x748x645	
	Net Weight (kg)	71.5	74.5	101	60
<b>Battery</b>	Number	20pcs (internal)		No internal battery	
	Autonomy time at 100% with internal batteries (min)	5	5	5	-
	Autonomy time at 70% with internal batteries (min)	9	8	8	-
	Type	Sealed maintenance free lead acid			
	Capacity	12V/7Ah	12V/9Ah		
	Rated Battery Voltage	240Vdc			
<b>Battery Bank</b>	Recharge Time (to 90%)	4-6 hours			
	Code	BCC40J0000	BCC40N0000	T60N00-0000	T60V00-0000
	Max quantities	40		60	
	Dimension (WxHxD, mm)	220x508x630		290x748x631	
<b>Display</b>	Status on LED + LCD	Line mode, backup mode, ECO mode, bypass supply, battery low, battery fault, overload, UPS fault			
	Readings on LCD	Input voltage, input frequency, output voltage, output frequency, load percentage, load current, battery voltage, inner temperature			
	Self-Diagnostics	Upon power-on, front panel setting & software control, 24-hour routine checking			
<b>Alarm</b>	Audible or Visual	Line failure/Battery low/Transfer to bypass/System fault			
<b>Protection</b>	Full Protection	Overload, over temperature, short circuit, overcharge			
<b>Environment</b>	Operation Temperature	0~40°C			
	Operation Humidity	0%~90% (without condensing)			
	Altitude	1000m without derating			
	Noise Level	<50dBA @ 1 meter		<60dBA @ 1 meter	
<b>Interface</b>	Standard	RS232, USB, EPO	RS232, USB, EPO, comm. slot		
	Option	Comm. slot, 2nd RS232, RS485, contact card, SNMP/Web card	2nd RS232, RS485, contact card, SNMP/Web card		
	Compatible platforms	Microsoft Windows series, Linux, Mac			
<b>Standards and Certifications</b>	Safety & EMC	IEC EN 62040-1-1, IEC EN 62040-2			
	Performance	IEC EN 62040-3			
	Marks	CE			

\* Based on load percentage.

