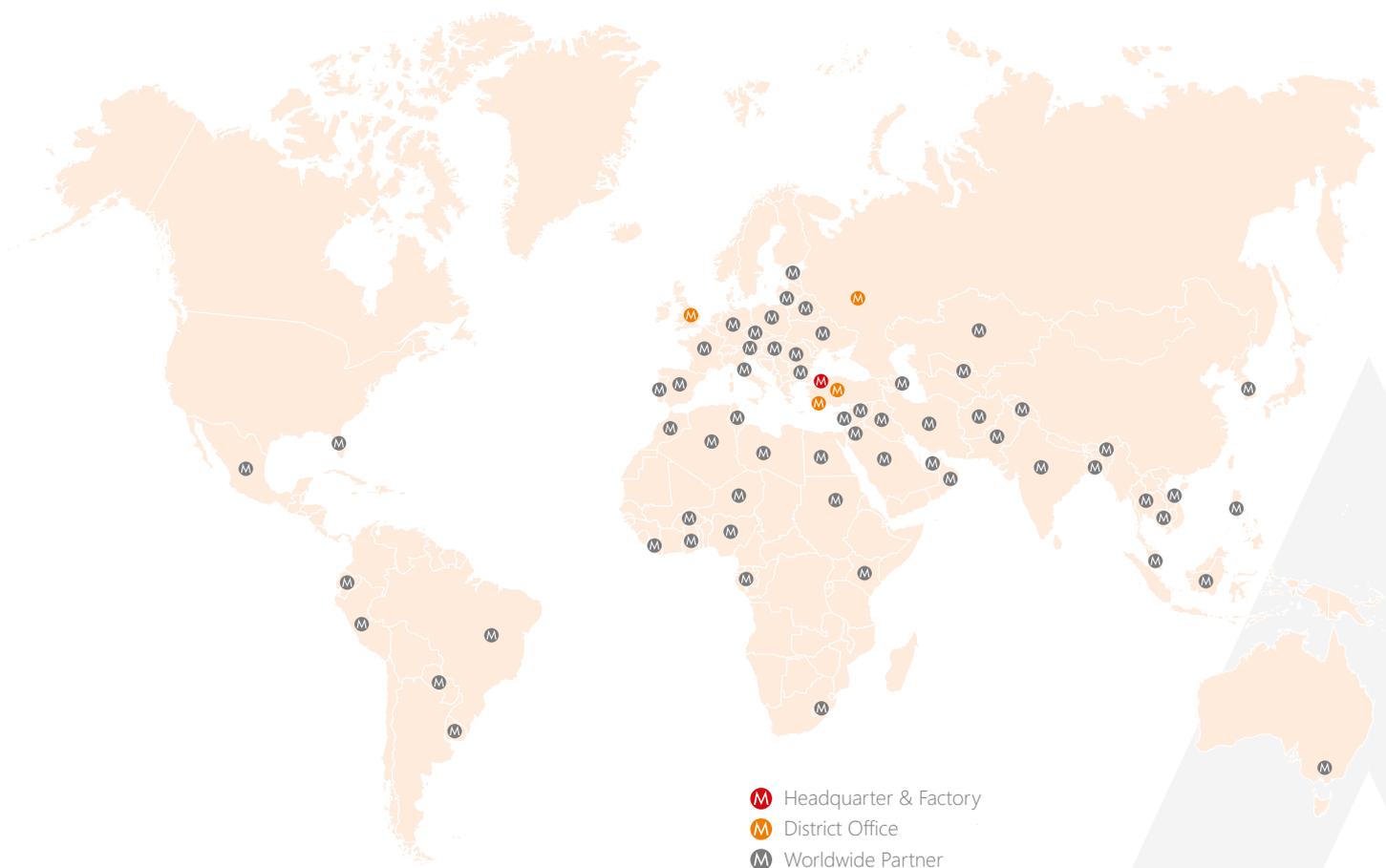


MODEL						
Capacity		650VA / 390W	850VA / 510W	1000VA / 600W	1500VA / 900W	2000VA / 1200W
INPUT						
Related Voltage		220V / 230V / 240 VAC				
Voltage Range		162-290 VAC ±7%				
Frequency		50-60 Hz ±10%				
OUTPUT						
Voltage Range		220V / 230V / 240 VAC				
Voltage Precision		±10% (Battery Mode)				
Frequency	AC Mode	Same as Mains				
	Battery Mode	50-60 Hz ±1%				
Waveform		Modified Sine Wave				
Crest Factor		3:1				
Transfer Time		2~6ms, 10ms Max.		4~8ms, 10ms Max.		
Overload	AC Mode	110% + 20% / -10%; Shutdown after 5 minutes and go to Fault Mode for all Model				
		120% + 20% / -10%; Shutdown immediately and go to Fault Mode for 1B Model				
		120% + 20% / -10%; Shutdown after 8 sec and go to Fault Mode for 2B Model				
	Battery Mode	110% + 20% / -10%; Shutdown after 5 seconds 120% + 20% / -10%; Shutdown immediately				
EFFICIENCY						
Inverter Mode		Line Mode: >95%, AVR Mode: >88%				
Battery Mode		>60%				
BATTERY						
Battery Configuration		12V/7Ah*1	12V/9Ah*1	12V/7Ah*2	12V/9Ah*2	12V/9Ah*2
Charge Current		About 1A at Normal Mode				
Recharge/Charging Time		6 hours to 90% at Normal Mode after Complete Discharge (Load>50%)				
Backup Time		~16 min.	~20 min.	~30 min.	~50 min.	~50 min.
PROTECTION						
Full Protection		Discharge, Overcharge, Overload Protection		Discharge, Overcharge, Overload, Short Circuit Protection		
INDICATION						
AC Mode		Green LED Lighting		Green LED Lighting		
Battery Mode		Green LED Lighting		Yellow LED Lighting		
Fault		N/A		Red LED Lighting		
ALARM						
Battery Mode		Sounding every 10 seconds				
Battery Low		Sounding every 1 seconds				
Overload		Sounding every 0.5 seconds				
Fault		Continuously Sounding				
OPERATING ENVIRONMENT						
Temperature		0 ~ 40°C				
Storage Temperature		-20°C ~ 55°C				
Relative Humidity		0 to 90 °C				
Audible Noise (at 1m)		≤40 dB			≤45 dB	
OTHER						
Communication Port		USB				
Software		Windows Family / Linux / Mac				
DIMENSIONS & WEIGHT						
Dimension (mm) WxDxH		278 x 100 x 143		365 x 139 x 195		
Packaging Dimension (mm) WxDxH		332 x 142 x 225		457 x 235 x 297		
Net Weight (kg)		4,35	5,15	9,07	10,74	10,74
Gross Weight (kg)		4,55	5,35	10,2	12	12

Makelsan reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Makelsan products previously or subsequently sold. Makelsan does not guarantee the items of the accuracy and completeness.



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International Standards

All Makelsan UPS systems comply with EU directives concerning performance, safety, radio frequency emissions, electromagnetic compatibility (EMC), voltage peaks, over voltage and static charges.
 EN 62040-1:2008.