

ELECTRICAL SPECIFICATIONS

Model Number MES 6000+ and MES 8000+ 6kW and 8kW

my
Energy
system

Input	Nominal Voltage	240V AC		
	Voltage Range	Acceptable Voltage Range	120V -270V AC	
		Frequency	45Hz - 70Hz Auto Sensing	
	Low Voltage Transfer	Low Voltage	120V AC +/-2%	
		Low Voltage Return	130V AC +/-2%	
	High Voltage Transfer	High Voltage	270V AC +/-2%	
		High Voltage Return	260V AC +/-2%	
	Output	Voltage	240V AC	
Voltage Regulation		(Batt Mode)	<3% RMS for entire battery voltage range	
Frequency Regulation		Line Mode	Synchronized to AC Main	
		Battery Mode	50Hz +/- 0.1Hz	
Power Factor		1.0		
Wave Form		Pure Sine wave		
Efficiency		>88%		
Overload Protection		Line Mode	>110%, then Buzzer Alarm and Amber LED blink continuously	
		Battery Mode	110%-150% for 30 sec; >150% for 200ms, then shuts down (Electronic shut down)	
Short Circuit Protection		Line Mode	Circuit Breaker	
		Battery Mode	Electronic Circuit	
Grid-tie inverter 1250W	Max Solar Input Power	1600W		
	Output Power	1250W Max		
Protection	Circuit breaker	AC Input 32A 2 pole		
		Battery 160A 1 pole		
DC Start	Cold Start	Yes		
		Yes		
Transfer time	Typical	<8 ms. Bi-directional		
Battery	Battery Type	Lithium-ion		
	Battery Voltage	48Vdc		
	Backup Time	Based on the batteries connected		
	Recharging Current	>30A		
Control Panel	LCD Colour Touch Screen 4.3"	Shows: Operational flow diagram, all parameters of system, solar generation kW, house consumption kW, power to grid and time schedules		
	LED Display	On Mains (Green), On Battery (Amber), Fault (Red)		
Audible Alarm	Battery Mode	Beeping every 4 seconds		
	Low Battery	Beeping every second		
	Inverter Fault	Beeping continuously		
	Overload	Beeping twice per second		
Parameter Re-settable	Voltage, Frequency, 5 Step Charge current			
Environment	Operation Temperature	0-45 degree C		
	Relative Humidity	0-75% non-condensing		
	Audible Noise	Less than 55dBA (at 1M)		
Physical	Floor standing (W*H*D)mm	550*1600*800 indoors only (IP20)		
	Weight (Kgs)	230		
	Approvals	EN62040-1-1, AS 3000, AS 3100:2009, AS 4777, CEC		
	EMC	EN62040-2		
	Marks	CE		
Solar Regulator				
Solar Input Power 2.5kW 50A 48V (range 48V – 76V)				
Internal Solar regulators: each Regulator rated at 2.5kW 48V 50A= 5kW total. Two inputs provided on systems				
Batteries (Internal)				
Battery Pack (Internal): Lithium-Ion Battery Pack (other options available).				
Supplying load: Standard lithium pack 8kW/h, (other options available for longer backup times)				
Recharge time by solar > 3 hours. (depending on solar array installed).				
By Grid Power > 8 hours.				
Option: without grid-tie Inverter				

