

Utility Charge Mode Specifications		
Nominal Input Voltage	230Vac	
Input Voltage Range	90-280Vac	
Nominal Output Voltage	Dependent on battery type	
Max. Charge Current	100A	
Charge Current Regulation	10-100A (Adjustable unit is 1A)	
Over Charge Protection	Yes	
Solar Charging & Grid Charging		
Max. PV Open Circuit Voltage	450V	
PV Voltage Working Range	120V – 450V	
Max. Input Power	4000W	6000W
Max. Solar Charging Current	100A	
Max. Charging Current(PV+Grid)	100A	
Max. Input Current	15A	20A
Min. Startup Voltage	125V	

Charge Algorithm			
Algorithm	Three stage: Boost CC (Constant current stage) -> Boost CV (Constant voltage stage) -> Float (Constant voltage stage)		
Charging Curve			
Battery Type Setting	Battery Type	Boost CC/CV	Float
	AGM	28.2V/56.4V	54V
	Flooded	29.2V/58.4V	54V
	Self - defined	Adjustable, up to 30V/60V	
	Lithium	Adjustable, up to 30V/60V	

Inverter Mode Specifications		
Model	MIT53KW	MIT55KW
Rated Output Power	3000VA	5000VA
	3000W	5000W
Nominal DC Input Voltage	24V	48V
Output Voltage Waveform	Pure sine wave	
Nominal Output Voltage	230Vac±5%	
Nominal Output Frequency (Hz)	50±0.3Hz/60Hz±0.3Hz (Adjustable)	
Peak Efficiency	90%	
Over-Load Protection (SMPS load)	5s@ ≥150% load; 10s@105%~150% load	
Surge Rating	2* rated power for 100ms	
Capable of Starting Electric	Yes	
Output Short Circuit Protection	Yes	
Cold Start Voltage	23V	46V
Low Battery Alarm Load < 50%	22.5V	45.0V
@Load ≥ 50%	22.0V	44.0V
Low Battery Alarm Recovery Load < 50%	23.5V	47.0V
@Load ≥ 50%	23.0V	46.0V
Low DC Input Shut-down Load < 50%	21.5V	43.0V
@Load ≥ 50%	21.0V	42.0V
High DC Input Alarm & Fault	31V±0.4V	62V±0.4V
High DC Input Recovery	30V±0.4V	60V±0.4V
General Specifications		
Operating Temperature	0C°~55C°	
Range Storage Temperature	-15C°~60C°	
Net Weight (Kg)	10.8KG	13.2KG
Product Size (D*W*H)	395*295*129mm	415*320*129mm
Package Dimension (D*W*H)	492*392*222mm	514*419*222mm