7 SPECIFICATIONS

Table 1 Line Mode Specifications

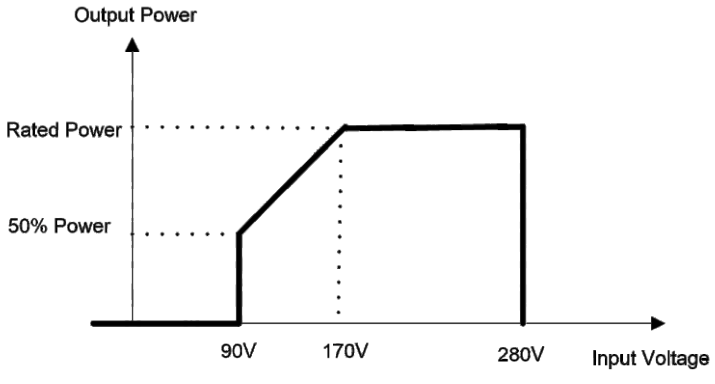
INVERTER MODEL	3.6KW	4.2KW	6.2KW
Input Voltage Waveform	Sinusoidal (utility or generator)		
Nominal Input Voltage	230Vac		
Low Loss Voltage	170Vac±7V (UPS); 90Vac±7V (Appliances)		
Low Loss Return Voltage	180Vac±7V (UPS); 100Vac±7V (Appliances)		
High Loss Voltage	280Vac±7V		
High Loss Return Voltage	270Vac±7V		
Max AC Input Voltage	300Vac		
Nominal Input Frequency	50Hz / 60Hz (Auto detection)		
Low Loss Frequency	40±1Hz		
Low Loss Return Frequency	42±1Hz		
High Loss Frequency	65±1Hz		
High Loss Return Frequency	63±1Hz		
Output Short Circuit Protection	Circuit Breaker		
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)		
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)		
Output power derating: When AC input voltage drops to 170V, the output power will be derated.			

Table 2 Inverter Mode Specifications

INVERTER MODEL	3.6KW	4.2KW	6.2KW
Rated Output Power	3.6KW	4.2KW	6.2KW
Output Voltage Waveform	Pure Sine Wave		
Output Voltage Regulation	230Vac±5%		
Output Frequency	50Hz		
Peak Efficiency	93%		
Overload Protection	3s@≥150% load; 5s@101%~150% load		
Surge Capacity	2* rated power for 5 seconds		
Nominal DC Input Voltage	24Vdc		48Vdc
Cold Start Voltage	23.0Vdc		46.0Vdc
Low DC Warning Voltage @ load < 50% @ load ≥ 50%	 22.0Vdc 21.0Vdc		 44.0Vdc 42.0Vdc
Low DC Warning Return Voltage @ load < 50% @ load ≥ 50%	 22.5Vdc 22.0Vdc		 45.0Vdc 44.0Vdc
Low DC Cut-off Voltage @ load < 50% @ load ≥ 50%	 20.5Vdc 20.0Vdc		 41.0Vdc 40.0Vdc
High DC Recovery Voltage	32Vdc		62Vdc
High DC Cut-off Voltage	33Vdc		63Vdc
No Load Power Consumption	30W	35W	50W

Table 3 Two Load Output Power

INVERTER MODEL	3.6KW	4.2KW	6.2KW
Full Load	3600W	4200W	6200W
Maximum Main Load	3600W	4200W	6200W
Maximum Second Load(battery model)	1200W	1400W	2066W
Main Load Cut Off Voltage	26VDC		52VDC
Main Load Return Voltage	27VDC		54VDC

Table 4 Charge Mode Specifications

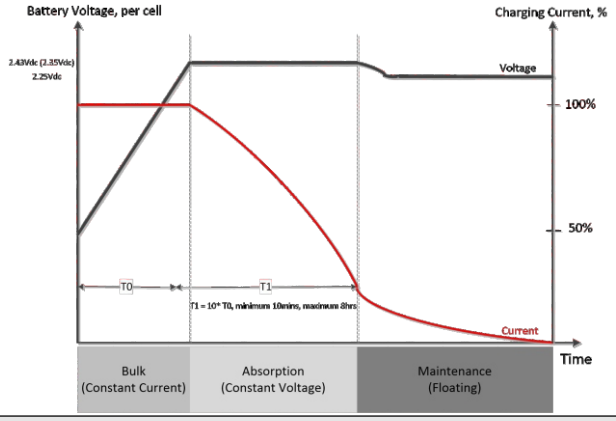
Utility Charging Mode				
INVERTER MODEL		**3.6KW**	**4.2KW**	**6.2KW**
Charging Algorithm		3-Step		
AC Charging Current (Max)		100Amp (@$V_{I/P}$=230Vac)		
Bulk Charging Voltage	**Flooded Battery**	29.2		58.4
	AGM / Gel Battery	28.2		56.4
Floating Charging Voltage		27Vdc		54Vdc
Charging Curve				
MPPT Solar Charging Mode				
INVERTER MODEL		**3.6KW**	**4.2KW**	**6.2KW**
Max. PV Array Power		6200W		6500W
Nominal PV Voltage		240Vdc		360Vdc
PV Array MPPT Voltage Range		60Vdc~500Vdc		
Max. PV Array Open Circuit Voltage		500Vdc		
Max Charging Current (AC charger plus solar charger)		120Amp	120Amp	120Amp

Table 5 Grid-Tie Operation

INVERTER MODEL	**3.6KW**	**4.2KW**	**6.2KW**
Nominal Output Voltage	220/230/240VAC		
Feed-in Grid Voltage Range	195~253VAC		
Feed-in Grid Frequency Range	49~51±1Hz/59~61±1Hz		
Nominal Output Current	15.7A	18.2A	26.9A
Power Factor Range	>0.99		
Maximum Conversion Efficiency (DC/AC)	97%		

Table 6 General Specifications

INVERTER MODEL	**3.6KW**	**4.2KW**	**6.2KW**
Safety Certification	CE		
Operating Temperature Range	-10°C to 50°C		
Storage temperature	-15°C~ 60°C		
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Dimension (D*W*H), mm	358×442×116		
Net Weight, kg	8.0	8.0	8.9