

Inverter Model	3KW	5KW	
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; When AC input voltage to 90V, the output power will be 50%		
Rated Output Power	3KVA/3KW	5KVA/5KW	
Output Voltage Waveform	Pure Sine Wave		
Output Voltage Regulation	230Vac±5V		
Peak Efficiency	93%		
Overload Protection	5s@≥130%load;10s@105~130%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%	23.0Vdc	46.0Vdc	
@load≥50%	22.0Vdc	44.0Vdc	
Low DC Warning Return Voltage			
@load < 50%	23.5Vdc	47.0Vdc	
@load≥50%	23.0Vdc	46.0Vdc	
Low DC Cut-off Voltage			
@oad < 50%	21.5Vdc	43.0Vdc	
@oad≥50%	21.0Vdc	42.0Vdc	
High DC Recovery Voltage	32 Vdc	62 Vdc	
High DC Cut-off Voltage	33Vdc	63Vdc	
No Load Power Consumption	< 35W	< 50W	
Utility Charging Mode			
Charge Algorithm	3-Step		
AC Charge Current (Max)	40Amp (@V i/p=230Vac)	60Amp (@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	
MPPT Solar Charging Mode			
Max PV Array Power	4000W	5000W	
Nominal PV Voltage	240Vdc	320Vdc	
Start-up Voltage	150Vdc±10Vdc		
PV Array MPPT Voltage Range	120~450Vdc		
Max PV Array Open Circuit Voltage	500Vdc		
Max Charge Current (AC Charger plus solar charger)	80Amp		
Operating Temperature Range	-10°C to 50°C		
Storage temperature	-10°C to 60°C		
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Dimension(D*W*H),mm	115*300*400		
Net Weight,kg	9	10	