

## Solar inverter

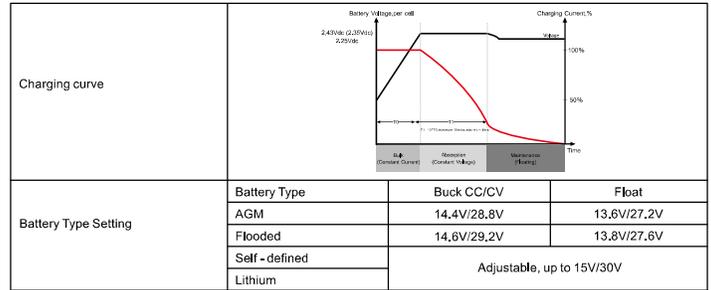
### SPECIFICATIONS

Table 1 Line Mode Specifications

Line Mode Specifications			
Model	IVCM1012 PRO	IVCM2024 PRO	IVCM3024 PRO
Rated output Power	1000VA/1000W	2000VA/2000W	3000VA/3000W
Instant Output Power (Turbo Mode)	3000W	4000W	4500W
Nominal DC Input Voltage	12V	24V	24V
Input Voltage waveform	Sinusoidal (utility or generator)		
Nominal Input Voltage	230Vac		
Low Line voltage Disconnect	170Vac±7V(UPS); 90Vac±7V(Appliances)		
Low Loss Voltage Re-connect	180Vac±7V(UPS); 100Vac±7V(Appliances)		
High Line Voltage Disconnect	280Vac±7V		
High Line Voltage Re-connect	270Vac±7V		
Max AC Input Voltage	300Vac		
Nominal Input Frequency	50Hz/ 60Hz (Auto detection)		
Low Line Frequency Disconnect	40±1Hz		
Low Line Frequency Re-connect	42±1Hz		
High Line Frequency Disconnect	65±1Hz		
High Line Frequency Re-connect	63±1Hz		
Output Voltage Waveform	As same as input waveform		
Output Short Circuit Protection	Line mode: Circuit Breaker Battery mode: Electronic Circuits		
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)		
Transfer Time (Single unit)	10ms typical (UPS); 20ms typical (Appliances)		
Max Bypass Overload Current	10A	15A	30A
Max Inverter/Rectifier Current	5A/1000W	10A/2000W	15A/3000W
Utility Charge Mode Specifications			
Nominal Input Voltage	230Vac		
Input Voltage Range	90-280Vac		
Nominal Output Voltage	Dependent on battery type		
Max Charge Current	20A	30A	
Charge Current Regulation	10-20A (Adj 10A)	20-30A (Adj 10A)	
Over Charge Protection	Yes		
Solar Charging & Grid Charging			
Max PV Open Circuit Voltage	105V	145V	
Operating Voltage Range	15-90V	30-120V	
Max Input Power	800W	1600W	
Max Solar Charging Current	60A		
Max Charging Current (PV + Grid)	80A	90A	
Max Input Current	35A		

Charge Algorithm	
Algorithm	Three stage: Buck CC (Constant current stage) -> Buck CV (Constant voltage stage) -> Float (Constant voltage stage)

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Battery Type Setting	Battery Type	Buck CC/CV	Float
AGM		14.4V/28.8V	13.6V/27.2V
Flooded		14.6V/29.2V	13.8V/27.6V
Self - defined		Adjustable, up to 15V/30V	
Lithium		Adjustable, up to 15V/30V	

Inverter Mode Specifications			
Model	IVCM1012 PRO	IVCM2024 PRO	IVCM3024 PRO
Rated output Power	1000VA/1000W	2000VA/2000W	3000VA/3000W
Instant Output Power (Turbo Mode)	3000W	4000W	4500W
Nominal DC Input Voltage	12V	24V	24V
Output Voltage Waveform	Pure sine wave		
Nominal Output Voltage	230Vac±5%		
Nominal output Frequency (Hz)	50±0.3Hz/60Hz±0.3Hz (Auto detection)		
Peak Efficiency	93%		
Over-Load Protection (SMPS load)	5s@≥150% load; 10s@110%~150% load		
Surge Rating			
Capable of Starting Electric	Yes		
output Short Circuit Protection	Yes		
Cold Start Voltage	11.5V	23.0V	
Low Battery Alarm			
@ Load < 20%	11.0V	22.0V	
@ 20% ≤ Load < 50%	10.7V	21.4V	
@ Load ≥ 50%	10.1V	20.2V	
Low Battery Alarm Recovery			
@ Load < 20%	11.5V	23.0V	
@ 20% ≤ Load < 50%	11.2V	22.4V	
@ Load ≥ 50%	10.6V	21.2V	
Low DC Input Shut-down			
@ Load < 20%	10.5V	21.0V	
@ 20% ≤ Load < 50%	10.2V	20.4V	
@ Load ≥ 50%	9.6V	19.2V	
High DC Input Alarm & Fault	15V	30V	
High DC Input Recovery	14.5V	29V	
General Specifications			
Operating Temperature	-10°C ~55°C		
Range Storage Temperature	-15°C ~60°C		
Net Weight (Kg)	5.5kg	6.5kg	6.5kg
Product Size (D*W*H)	340x248x107mm	340x248x107mm	340x290x124mm
Package Dimension (D*W*H)	422x330x181mm	422x330x181mm	422x372x198mm