

# INVERSOR SOLAR IVCM Serie

Sistema inteligente, carga más rápida



## Parámetros Del Producto

Model	IVCM1012
Potencia nominal	1000VA/1000W
Potencia máxima instantánea	2000VA
Voltaje de entrada CC nominal	12V
Tipo de onda de salida	Onda sinusoidal pura
Voltaje de salida nominal	230Vac±5%
Frecuencia de salida nominal (Hz)	50Hz/60Hz (Detección automática)
Eficiencia maxima	93%
Protección contra sobrecarga	5s@≥150% de la Carga;10s@110%~150% de la Carga
<b>Aumento de tensión</b>	
Arranque de dispositivos eléctricos	Sí
Protección contra cortocircuito	Sí
Voltaje de de arranque en frío	11.5V
<b>Alarma de batería baja</b>	
@ Carga ≤ 20%	11.0V
20% < Carga ≤ 50%	10.7V
@ Carga ≥ 50%	10.1V
<b>Baja recuperación de battery Alarm</b>	
@Carga ≤ 20%	11.5V
@ 20% < Carga ≤ 50%	11.2V
@ Carga ≥ 50%	10.6V
<b>Low DC Input shut-down</b>	
@Carga ≤ 20%	10.5V
@ 20% < Carga ≤ 50%	10.2V
@Carga ≥ 50%	9.6V
Alarma de alta voltaje de entrada/protección	15V
Recuperación de alto voltaje de entrada	14.5V
<b>Especificaciones generales</b>	
Temperatura de operación	-10°C~55°C
Temperatura de almacenamiento	-15°C~60°C
Peso neto(KG)	5KG
Medidas del producto(MM)	328*232*107MM
Medidas del paquete(MM)	422*314*182MM

## 2.3 Specifications

Model	FLA12200
Energy	2.56kWh
Battery Type	LiFePO4
Nominal Voltage	12.8V
Operating Voltage	11.2-14.4V
Recommend Charge/Discharge Current[1]	≤120A
Recommend Charge/Discharge Power[1]	≤1,500W
Maximum Charge/Discharge Current(15s)	200A
Maximum Charge/Discharge Power(15s)	2,500W
Depth of Discharge(DOD)	≥ 95%
Scalability	Up to 16 units in parallel(40.96kWh)
Communication	RS485 / CAN
Protection Level	IP21
Cycle Life[2]	≥ 6,000 Cycles
Charging Temperature Range	0-55 °C
Discharging Temperature Range	-20-55 °C
Display	LCD+LED
Installation	Floor-Mounted
Protection	Built-in smart BMS, Fuse
Warranty	5 Years
Net Weight	15kg
Gross Weight	18kg
Product Dimension	328×248×199mm
Package Dimension	391×310×257mm
[1] Recommend charge/discharge current/power is affected by temperature and SOC.	
[2] Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.	

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## 2.4 Recommended Settings

Lithium battery pack is not same as lead-acid battery, so for the devices which you connect with the battery pack for charging or discharging, such as inverters, MPPT charger controllers or UPS, please implement pre-settings as recommended settings as below before you launched them.

Setting	FLA12200
Max. Charging Voltage	14.4V
Floating Charging Voltage	14.4V
Max. Charging Current	120A*N
Cut-off Voltage	12V

## Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	144 (72×2)
Dimensions	2278×1134×30 mm
Weight	31.0 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M / JK03M2 / Others*
Output Cables (Including Connector)	4.0 mm <sup>2</sup> (+): 400 mm , (-): 200 mm or Customized Length

\* MC4 and MC4-EVO2 available upon request and subject to availability

## Packaging Configuration

Pallet Dimensions	2338×1140×1251mm
Packing Detail (Two pallets = One stack)	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40'HQ Container

## Specifications (STC)

Maximum Power - Pmax [Wp]	575	580	585	590	595	600
Maximum Power Voltage - Vmp [V]	43.73	43.88	44.02	44.17	44.31	44.45
Maximum Power Current - Imp [A]	13.15	13.22	13.29	13.36	13.43	13.50
Open-circuit Voltage - Voc [V]	52.30	52.50	52.70	52.90	53.10	53.30
Short-circuit Current - Isc [A]	13.89	13.95	14.01	14.07	14.13	14.19
Module Efficiency STC [%]	22.26	22.45	22.65	22.84	23.03	23.23
Power Tolerance	0 ~ + 3 %					
Temperature Coefficients of Pmax	-0.29 %/°C					
Temperature Coefficients of Voc	-0.25 %/°C					
Temperature Coefficients of Isc	0.045 %/°C					

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Specifications (BNPI)

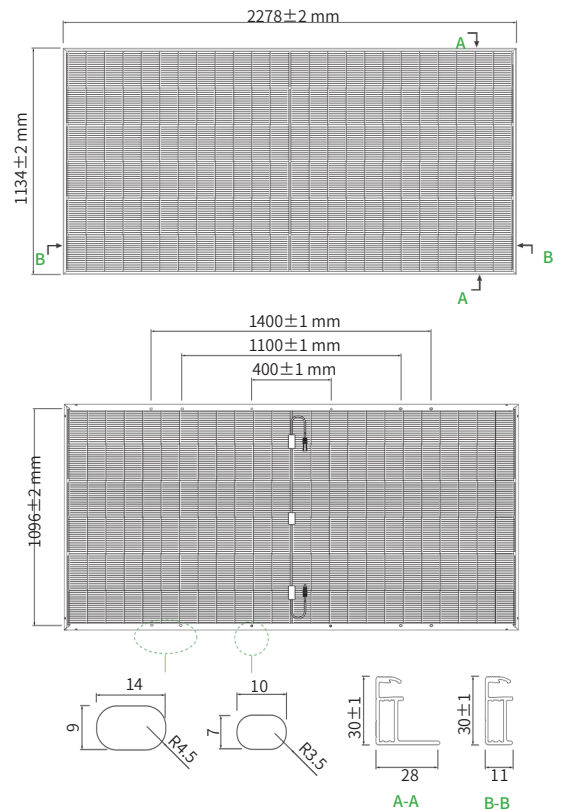
Maximum Power - Pmax [Wp]	633	638	644	649	655	660
Maximum Power Voltage - Vmp [V]	43.84	44.00	44.17	44.33	44.50	44.66
Maximum Power Current - Imp [A]	14.44	14.50	14.58	14.64	14.72	14.78
Open-circuit Voltage - Voc [V]	52.33	52.53	52.73	52.93	53.13	53.33
Short-circuit Current - Isc [A]	15.19	15.25	15.31	15.37	15.43	15.49

BNPI: Irradiance: front 1000W/m<sup>2</sup>, rear 135W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Application Conditions

Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Bifaciality Coefficient	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %

## Engineering Drawings



Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

## Electrical Performance

