



INVERSORES

Off-Grid | On-Grid | Híbridos



Inversor Off-Grid con Control Solar



- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Battery equalization for optimized battery performance and lifecycle
- Cold start function
- Optional anti-dusk kit

Características Técnicas

MODEL	IOP-1K-12	IOM1K-12L	IOP-2K-24	IOM-2K-24L	IOP-3K-24		IOM-3K-24L		
Rated Power	1000VA/1000W		2000VA/2000W		3000VA / 3000W			5000VA / 5000W	
INPUT									
Voltage	230 VAC								
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)								
Frequency Range	50 Hz/60 Hz (Auto sensing)								
OUTPUT									
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%								
Surge Power	2000VA		4000VA		6000VA			10000VA	
Efficiency (Peak)	90% ~ 93%								
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)								
Waveform	Pure sine wave								
BATTERY									
Battery Voltage	12 VDC		24 VDC				48 VDC		
Floating Charge Voltage	13.5 VDC		27 VDC				54 VDC		
Overcharge Protection	16 VDC		31 VDC		33 VDC			63 VDC	
SOLAR CHARGER & AC CHARGER									
Solar Charger type	PWM	MPPT	PWM	MPPT	PWM	MPPT		PWM	MPPT
Maximum PV Array Open Circuit Voltage	55 VDC	102 VDC	80 VDC	102 VDC	80 VDC	102 VDC	145 VDC	105 VDC	145 VDC
Maximum PV Array Power	600 W	500 W	1200 W	1000 W	1200 W	1000 W	1500 W	2400 W	3000 W
MPP Range @ Operating Voltage	N/A	17 ~ 80 VDC	N/A	30 ~ 80 VDC	N/A	30~80 VDC	30~115 VDC	N/A	60 ~ 115 VDC
Maximum Solar Charge Current	50 A	40 A	50 A	40 A	50 A	40 A	60 A	50 A	60 A
Maximum AC Charge Current	20 A	20 A	20 A	25 A	25A	25A	60 A	60 A	60 A
Maximum Charge Current	50 A	60 A	50 A	60 A	70 A	60 A	120 A	110 A	120 A
PHYSICAL									
Dimension, D x W x H (mm)	88 x 225 x 320				100 x 285 x 334		100 x 300 x 440	100 x 300 x 440	
Net Weight (kgs)	4.4	4.4	5	5	6.3	6.5	9.5	8.5	9.7
Communication Interface	USB/RS232								
ENVIRONMENT									
Humidity	5% to 95% Relative Humidity (Non-condensing)								
Operating Temperature	-10°C to 50°C								
Storage Temperature	-15°C to 60°C								

Product specifications are subject to change without further notice.

Inversor Off-Grid con Controlador Solar MPPT



LCD Display Panel



• Detachable LCD control module with various communications

This detachable LCD control module can be turned to remote panel. Users can install the LCD panel in accessible area away from inverter up to 20 meters.



• Integrated Bluetooth interface with Android App

Integrated Bluetooth interface ready for mobile monitoring. This technology allows wireless communication up to 6~7m in an open space. App is available in google store.



• Supports USB On-the-Go function

Supports USB On-the-Go function to facilitate data upload/download.



• Reserved communication port (RS-485, CAN-BUS or RS-232) for BMS

This third generation inverter is reserved communication port for BMS. For the detailed information, please contact sales directly.

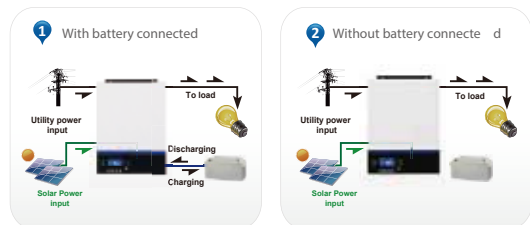


• Battery equalization extends lifecycle

This inverter charger is built in battery equalization function. This function will help remove sulfation to optimize battery performance and even extend lifecycle.

• Battery independency

Inverter can keep supplying power to the loads from PV energy or the grid without battery connected.



• User-friendly LCD operation

Users can easily set up or change the charging current, output source and charger source prioritization through LCD control panel to optimize inverter performance.



• Replaceable fan design

Designed with replaceable fan. It will simplify the maintenance and reduce the maintenance cost.



Características Técnicas

MODEL	IOM-1.5K-24	IOM-3K-24	IOM-5K-48
Rated Power	1500VA/1500W	3000VA/3000W	5000VA/5000W
INPUT			
Voltage	230 VAC		
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%		
Surge Power	3000VA	6000VA	10000VA
Efficiency (Peak)	90% ~ 93%		
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)		
Waveform	Pure sine wave		
BATTERY			
Battery Voltage	24 VDC		48 VDC
Floating Charge Voltage	27 VDC		54 VDC
Overcharge Protection	33 VDC		63 VDC
SOLAR CHARGER & AC CHARGER			
Solar Charger type	MPPT		
Maximum PV Array Power	2000W	4000W	5000W
MPP Range @ Operating Voltage	120 ~ 380 VDC	120 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	400 VDC	500 VDC	
Maxmum Solar Charge Current	60A	80A	
Maximum AC Charge Current	40A	60A	
Maximum Charge Current	60A	80A	
PHYSICAL			
Dimension, D x W x H (mm)	100 x 280 x 390	115 x 300 x 400	
Net Weight (kgs)	8.5	9	10
Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact		
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C to 60°C		

Product specifications are subject to change without further notice.

Inversor Off-Grid UPS Online - Zero Transferencia



- Zero transfer time to protect mission-critical loads such as servers and ATM.
- Detachable LCD control module with multiple communications
- Built-in Bluetooth for mobile monitoring (Android App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Configurable AC/PV output usage timer and prioritization
- Parallel operation up to 9 units

Expert King Off-Grid Inverter Selection Guide

MODEL	IOM-3K-24ZP	IOM-5K-48ZP
Rated Power	3000VA/3000W	5000VA/5000W
Parallel Capability	Up to 9 units	Up to 9 units
INPUT		
Voltage	230 VAC	
Voltage Range	110-280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation	230 VAC ± 5%	
Output THDv	<3% for linear load, <8% for non-linear load	
Surge Power	6000VA for 5 sec	10000VA for 5 sec
Efficiency (Peak)	93 % at Line Mode, 90% at Battery Mode	
Transfer Time	0 ms	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	34 VDC	66 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	MPPT
Maximum PV Array Open Circuit Voltage	145 VDC	
Maximum PV Array Power	1500 W	4000 W
MPP Range @ Operating Voltage	30 ~ 115 VDC	60~115VDC
Maxmum Solar Charge Current	60 A	80 A
Maximum AC Charge Current	60 A	60 A
Maximum Charge Current	120 A	140 A
PHYSICAL		
Dimension, D x W x H (mm)	140 x 303 x 525	
Net Weight (kgs)	13.0	13.5
Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	0°C to 55°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Selector de equipos

	IOP		IOM	IOM-ZP		
Power rating	1KVA-5KVA	3KVA-5KVA	1.5KVA/3KVA/5KVA	3KVA/5KVA	1KVA-5KVA	1KVA-5KVA
Phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Topology	Off-grid	Off-grid	Off-grid	Off-grid	Off-grid	Off-grid
Output waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Power Factor	1	1	1	1	1**	1**
Accept AC power source	.	.	.	.	.	.
Built-in AC charger*	1K-2K: 20A 3K-5K: 25A-60A*	60A	1.5K: 40A 3K/5K: 60A	60A	1K-3K: 20A-60A* 4K/5K: 60A	1K-3K: 15A-60A* 4K/5K: 60A
Solar charger	IOP: PWM IOM: MPPT	MPPT	MPPT	MPPT	PWM	MPPT
Solar charger capability*	IOP: 50A IOM: 40A - 60A*	80A	1.5KVA: 60A 3KVA/5KVA: 80A	3KVA: 60A 5KVA: 80A	50A	1K-3K: 18A-40A* 4K/5K: 80A
Parallel capability				.	Only for 3KP/4K/5K/5KP	Only for 3KP/4K/5K/5KP
Battery independency		.	.			
Removable LCD Module			.	.		
Input voltage selection	.	.	.	.	.	.
AC/solar priority setting	.	.	.	.	.	.
Unique Features				Zero transfer time		
Software	WatchPower	WatchPower	WatchPower	WatchPower	WatchPower	WatchPower

*This table is for reference only. For detailed charger size, please check model spec sheet directly.

** 3KP/5KP models are only applied for power factor 0.8.