

POWER INVERTER /CHARGER

ION2900 LV Series



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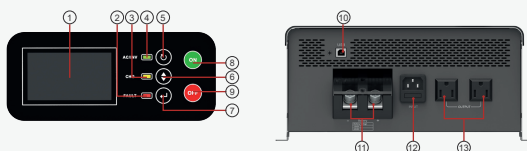
300W~1000W | 12V/24V | 10~30A | AC 120V

EH2900 LV series inverter is a cost effective, intelligent with UPS function. The comprehensive LCD offers user-configurable and easy-accessible button adjustment such as battery charge current, battery charge voltage, frequency, buzzer etc. It's perfect for the user who need a simple and economical inverter, with user-friendly installation and setting.



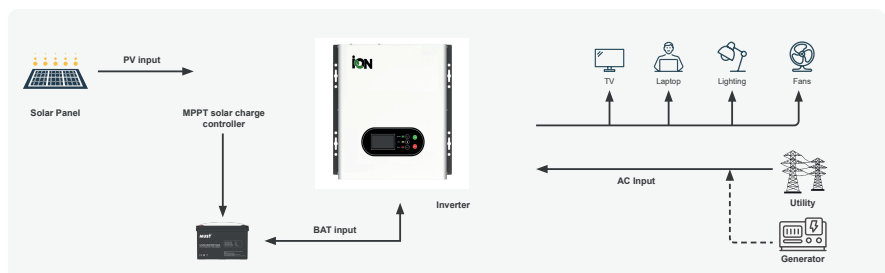
- Sine wave inverter
- Adjustable charging current from utility
- Adjustable battery charging current
- 3 steps charging algorithm
- Friendly user interface
- Multi-function display
- Overload and short-circuit protection
- Battery reverse polarity protection
- Deep discharge protection
- Automatic voltage regulation Communication with PC

Back panel description



- | | |
|--------------------|-------------------|
| 1. LCD display | 8. Power on |
| 2. Fault LED | 9. Power off |
| 3. Charge LED | 10. USB |
| 4. AC/Inverter LED | 11. Battery input |
| 5. ESC | 12. AC input |
| 6. SEL | 13. AC output |
| 7. Enter | |

Solar system connection



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Specifications

MODEL	ION29-0312	ION29-0412	ION29-0512	ION29-0612	ION29-0812	ION29-1012	ION29-0624	ION29-0824 LV	ION29-1024
Default Battery System Voltage	12VDC						24VDC		
INVERTER OUTPUT									
Rated Power	300W	400W	500W	600W	800W	1000W	600W	800W	1000W
Surge Rating	900VA	1200VA	1500VA	1800VA	2400VA	3000VA	1800VA	2400VA	3000VA
Waveform	Pure sine wave								
Voltage Regulation	Battery mode: 110 or 120VAC Line mode: 95~125VAC								
Output Frequency	50Hz / 60Hz								
Invert Frequency (Peak)	>75%						>81%		
Bypass Efficiency	>95%								
Output Transfer Time	8ms(typical) 12ms(max)								
AC INPUT									
Voltage	110/120VAC								
Selectable Voltage Range	70~140VAC ±5%								
Low Battery Alarm	70VAC ±5%								
Low Voltage Recover	75VAC ±5%								
High Battery Alarm	140VAC ±5%								
High Voltage Recover	135VAC ±5%								
Low Frequency Alarm	45 ±5Hz								
Low Frequency Recover	46 ±5Hz								
High Frequency Alarm	65 ±5Hz								
High Frequency Recover	64 ±5Hz								
Nominal Input Range	50Hz / 60Hz ±5Hz								
AC Auto Restart	YES								
BATTERY									
Minimum Start Voltage	Low Battery Voltage Cutoff+0.5V						Low Battery Voltage Cutoff+0.5V		
Low Battery Alarm	Low Battery Voltage Cutoff+0.5V						Low Battery Voltage Cutoff+1.0V		
Min battery voltage for power on	Shutdown voltage +0.5V						Shutdown voltage +1V		
Low Battery Cutoff	10-12.0VDC						20.0-24.0VDC		
High Battery Alarm	(13.8-14.5V)+1V for 12VDC mode (*2 for 24VDC)								
AC CHARGE									
Floating Voltage	13.5-14.5VDC						27-29VDC		
Boost Voltage	13.8~14.5VDC						27.6~29VDC		
Maximum Charge Current	300W 10A	400W 10A	500W 15A	600W 20A	800W 25A	1000W 30A	600W 10A	800W 15A	1000W 15A
BYPASS & PROTECTION									
Input Waveform	Pure sine wave								
Input Frequency	50Hz or 60Hz								
Overload Protection	> 110%~125% Load fault after 60s; > 125%~150% Load fault after 3s; > 150% Load fault after 500ms								
Over Temperature Protection	≥90°C								
Bypass Output Protection	15A 250VAC								
Output Circuit Protection	YES								
Battery Reverse Protection	Optional								
Battery Low Voltage Protection	YES								
Battery High Voltage Protection	YES								
Bypass Breaker Rating	15A								
Maximum Bypass Current	15A								
MECHANICAL SPECIFICATION									
Machine Dimension (W*H*D)(mm)	300.5*319*132.2								
Package Dimension (W*H*D)(mm)	391*187*325								
N.W(kg)	/								
G.W(kg)	/								
GENERAL									
Operating Temperature	0°C~40°C 0~90% relative humidity (non-condensing)								
Storage Temperature	-15°Cto 55°C								
Altitude	≤1000M								
Audible Noise	≤60dB								
Display	LED+LCD								
Cooling Mode	Fan cooling								
Fan Starting	>45°Cstarting, <30°C Closing								
Communication	USB								
Standard Warranty	2 years								
CERTIFICATION & STANDARDS									

CE-LVD (EN IEC62109-1:2010,EN IEC62109-2:2011);CE-EMC+LVD (EN6100-6-4:2007, EN6100-6-2:2005+EN IEC62109-1:2010, EN IEC62109-2:2011) IEC60950-1:2005A+1:2009+A2:2013; EN IEC62040-1:2019

*The technical specifications of this document are subject to change without any notice



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