

*"Generate cheap, green
electricity from sunlight"*

iCV1000~30000

GRID TIE SOLAR INVERTER



INOVIA

INOVIA designs, manufactures, installs and maintains high performance photovoltaic products that convert sunlight into electricity for residential, commercial, and utility-scale power generation.



iCV series is high efficiency grid tied solar inverters. Its transformerless design means high efficiency and reduced weight. Maximum power production is derived from wide input voltage and operating temperature ranges. Multiple MPP trackers mitigate the effect of shade and allow for installation at challenging sites. The unique Secure Power Supply feature provides daytime power in the event of a grid outage. High performance, flexible design and innovative features make the iCV series the first choice among solar professionals

- Wide input voltage range
- Tri-level technology.
- Transformerless design.
- Full digital control.
- Communication: RS485/RS232/WIFI.
- IP 65 protection.
- Embedded IPM Module for enhanced full range conversion efficiency.
- Island protection.
- Enhanced DSP control system.
- Compact size, advanced thermal design and cooling fan.
- Sealed stainless steel enclosure for outdoor installation.
- Wide working temperature range -20°C to 65°C.
- Ground-fault circuit and interrupters protection.
- Manufactured according to International Quality and Environment Management System Standards ISO9001:2008, ISO14001:2004

Certification

UL 1741
California CEC Listed
CE
RoHS
EN61000-6-1
EN61000-6-3
VDE 0126
VDE-AR-N 4105

Warranty

5 year product warranty

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INOVIA

TECHNICAL CHARACTERISTICS

Model	iCV1000	iCV1500	iCV2000	iCV3000	iCV5000	iCV10000	iCV15000	iCV20000	iCV25000	iCV30000
Rated Power	1000W	1500W	2000W	3000W	5000W	10000W	15000W	20000W	25000W	30000W
Max DC Power	1100W	1600W	2100W	3200W	5200W	11000W	16000W	22000W	25800W	31000W
Max DC Voltage	450V	500V	550V	550V	900V	900V	900V	900V	900V	900V
MPPT Voltage Range	120~360V	120~400V	120~450V				300~800V			
Max DC Current	6A	8A	12A	17A	25A	2x11A	2x16A	2x22A	2x27.5A	2x33A
Max Short Circuit Current	8A	10A	15A	21A	30A	27A	40A	55A	70A	83A
Max Feedback Current	≤0.1mA									
MPPT Trackers	1	1	1	1	1	2	2	2	2	2
Power system	Single Phase					Three Phases				
Rated Output Voltage	230V					3/N/PE,230/400V				
Rated Frequency	50Hz/60Hz									
Rated Output Current	6A	8A	10A	13A	22A	17A	69A	95A	112A	134A
Max AC inrush current	6A	8A	10A	13A	22A	17A	69A	95A	112A	134A
Max AC Fault Current	9A	12A	15A	20A	33A	21A	75A	100A	120A	142A
Max Output Protection Current	9A	12A	15A	20A	33A	21A	75A	100A	120A	142A
Power Factor	-0.9~+0.9									
Output THD	≤3%									
Efficiency	96.83%	96.38%	97.02%	96.90%	97.11%	97.25%	97.25%	97.25%	97.50%	97.55%
Euro Efficiency	93.94%	94.81%	95.83%	96.18%	96.24%	96.24%	96.00%	96.50%	96.55%	96.55%
MPPT Efficiency	≥99%									
EMC	EN61000-6-1 EN61000-6-3									
Anti-islanding Protection	Internal									
IP Rating	IP65									
Pollution class	3									
UV protection	Metal enclosure									
RCD	Internal									
Ambient Temperature range	-20°C~+65°C									
Environment Humidity	4%~100%									
Topology	Transformerless									
Communication interface	RS485/RS232/Wi-Fi									
Night consumption	<1W					<20W				
Cooling system	Convection									
Noise emission	≤25db	≤25db	≤25db	≤28db	≤30db	≤65db	≤68db	≤70db	≤72db	≤75db
Elevation	Full power output below the altitude of 1000m									

The information provided in this flyer contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. All product designations may be trademarks or product names of INOVIA Limited or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.

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