



**USE YOUR
SOLAR POWER
HARVEST SMARTLY**

Our products are proven and meet global / IEC / MNRE standards.



Remote Monitoring
Option Available



Outdoor Type
Design (IP65/IP55)



Graphical LCD
Display*

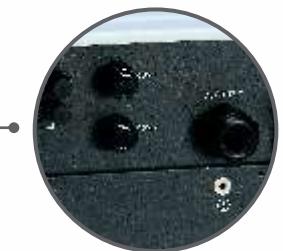


MPPT
Efficiency > 99.9%



DC-AC Conversion
Peak Efficiency
upto 99%

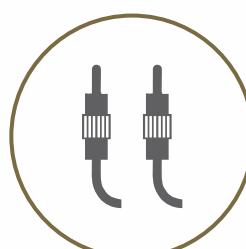
Highlights



Waterproof
Connection



DC Disconnection
switch integrated



Multi MPPT*

INDUSTRIES SERVED



Engineering



FMCG



Oil & Gas



Textile/Garment



Poultry Farms



Hospital



Chemicals



Food Processing



Educational Institutes



Automotive



Cement



Industrial plastics

IGPB SERIES

3 PHASE

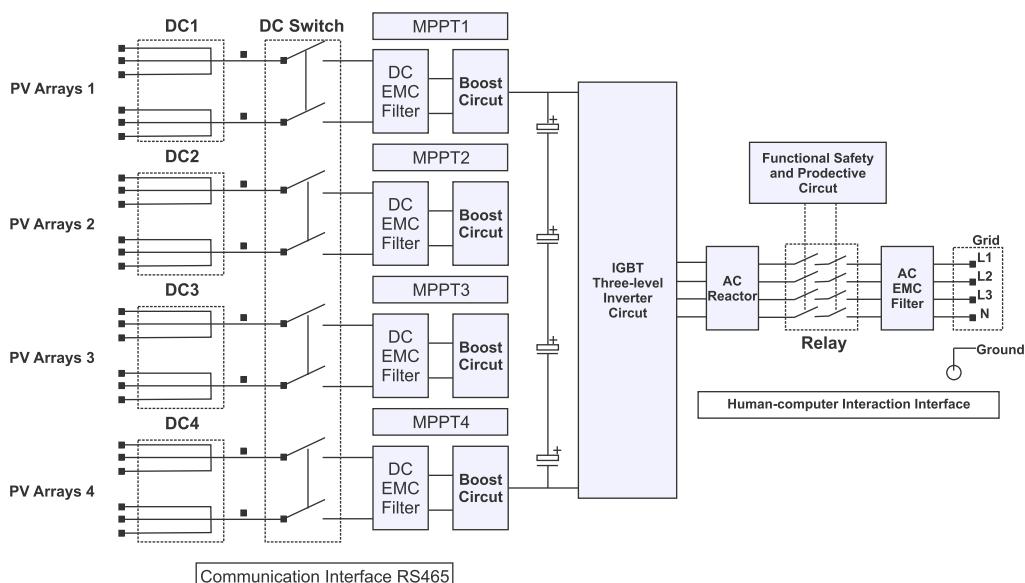
6kw - 67kw



We are an expert's choice
with Efficiency upto 99%

- MPPT efficiency > 99.9%
- Multi MPP Tracker ensures better energy harvest
- Communication interfaces integrated
- Option of online web-based monitoring
- Wide DC input voltage range
- Highly safe with complete protective functions
- Certified to IEC standards
- Water-proof direct plug-in terminals
- Weather-proof design for outdoor installation
- Compact design with high quality housing

BLOCK DIAGRAM



*For select models.

IGPB SERIES - 3 PHASE | TECHNICAL SPECIFICATION

MODELS	IGPB-6kw	IGPB-11kw	IGPB-17kw	IGPB-22kw	IGPB-34kw	IGPB-56kw	IGPB-67kw
INPUT SIDE DATA							
Max. PV input power (W)	7200	12000	18000	24000	40000	60000	72000
Max. PV input voltage (V)			1000			1100	
Startup voltage (V)	250	250	250	250	250	250	250
Nominal input voltage (V)	640	640	640	640	640	620	620
MPP voltage range (V)	200 - 900	200-950	270-950	270-950	270-950	300-950	300-950
No. of MPPTs	2	2	2	2	2	4	4
Max. Number of PV strings per MPPT	1	2/1	3	2	4	3	3
Max. PV input current (A)	22	26	44	44	68	114	114
Current Per MPPT channel (A)	(11 / 11)	(15/11)	(22/22)	(22/22)	(34/34)	28.5 / 28.5 / 28.5 / 28.5	
OUTPUT SIDE DATA							
Nominal AC output power (W)	6000	10000	15000	20000	33000	50000	60000
Max. AC output current (A)	9.2	15.1	24	30	48	83	100
Nominal AC voltage			3/N/PE,230/400 Vac				
AC voltage range (L-T)			300-480VAC				
Nominal grid frequency			50/60 Hz				
Grid frequency range			47-53Hz/57-63 Hz				
THD			< 3% (nominal power)				
DC current injection			< 0.5% In				
Power factor			> 0.99@ default value at nominal power				
PROTECTION							
Protections			Anti-islanding/DC reverse connection/AC short circuit/Leakage current/ Over voltage				
PV Fuse on Solar DC inputs		Not included		Not included	Included		Not included
DC switch			Yes				
Overvoltage protection			Type II surge arrester				
SYSTEM DATA							
Max. Efficiency (%)	98	98.1	98.3	98.3	98.5	98.9	99.0
Max. European efficiency (%)	97.5	97.6	97.9	97.9	98.2	98.4	98.5
Isolation method			Transformerless				
Ingress protection rating			IP65 (Fan IP55)				
Night power consumption			< 1W				
Operating ambient temperature range			-25 to +60°C				
Allowable relative humidity range			0-95% no condensing				
Cooling method	Convection		Smart forced air cooling				
Max. operating altitude		2000m		4000m (>2000m derating)			
Display			Graphical LCD			Alphanumeric LCD	
Communication			RS485 (RJ45 connector)				
DC connection type			SUNCLIX/MC4				
AC connection type			Modular connector / Clamping yoke connector / Screw clamp terminal				
MECHANICAL DATA							
Dimensions (W*H*D) (mm)	405x498x222	405x498x255		500x758x175	510x710x260	630x700x357	630x700x357
Mounting method			Wall bracket				
Weight (Kg)	20	25	48	48	58	63	65

*Specifications are subject to change without prior notice

IGPB SERIES

HIGH POWER (3 PHASE)

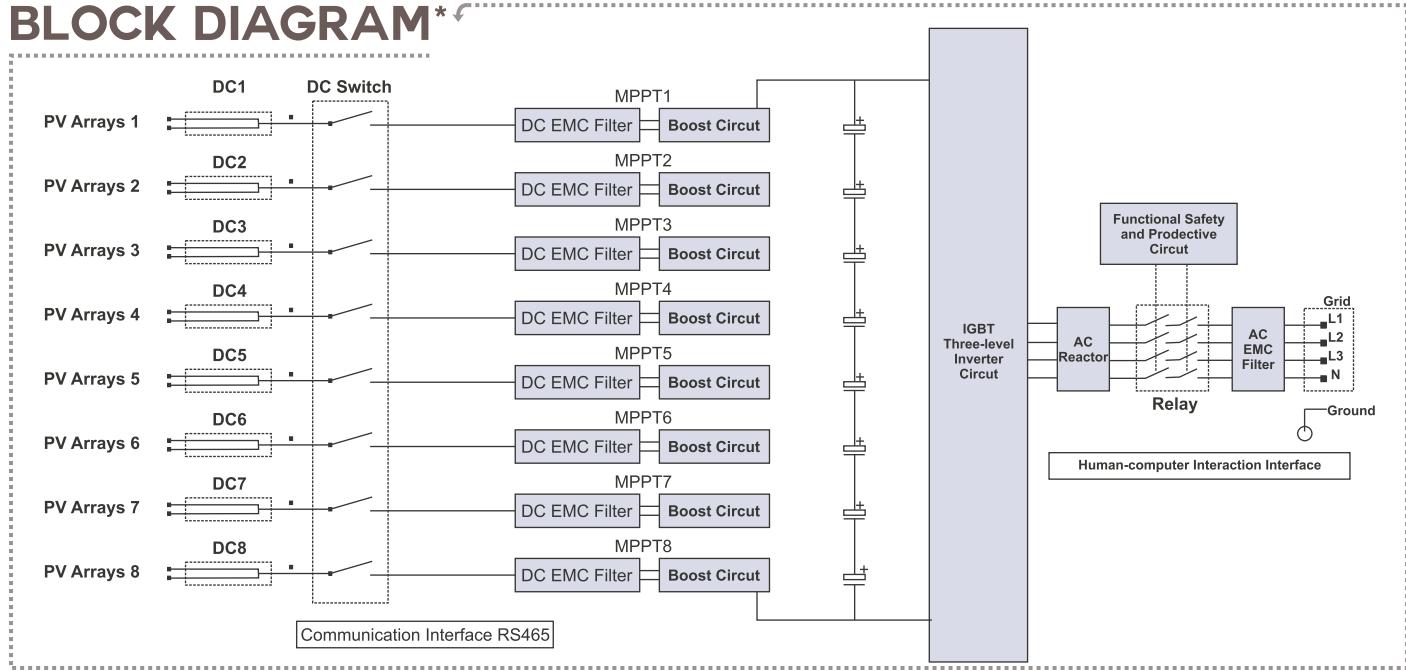
100kw - 250kw

We are an expert's choice
with Efficiency upto 99%

- Supports 1.5x DC overloading capability.
- Upto 10 individual MPPT, ensures better solar energy harvest.
- Efficient logic algorithm, over 99% max. Efficiency
- String monitoring integrated.
- Remote & local intelligent IV Scan function
- Leakage current repression technology
- Option of online web-based monitoring.
- Volt-watt work mode (optional)
- DC input reverse alarm
- Anti-PID function (optional)
- Reactive power compensation function (optional)
- IP6 x rating (suitable for outdoor installation)
- Highly safe with complete protective functions.



BLOCK DIAGRAM*



*For select models.

IGPB HIGH POWER SERIES - 3 PHASE | TECHNICAL SPECIFICATION

MODELS	100kw (LV)	125kw (LV)	125kw (EHV)	250kw (EHV)		
INPUT DC						
Recommended Max. DC Input Power (kW)	112	150	187.5kW	300kW		
Max. DC input voltage (V)		1100		1500V		
Nominal DC voltage (V)	600	720	950V	1080V		
Start-up voltage (V)		200	900V	620V		
MPPT voltage range (V)		180-1000	850-1450V	600-1500V		
Full load MPPT voltage range (V)		505-850	850-1450V	850-1450V		
Max. input current (A) per MPPT		26A	150A	26A		
Max. Short Circuit current per MPPT		40A	300A	40A		
MPPT number	8	10	1	14		
Max input strings number per MPPT	2	2	20	2		
OUTPUT AC						
Rated output power	80kW	100kW	125kW	230kW		
Max. apparent output power	88kVA	110kVA	125kVA	253kVA		
Max. output power	88kW	110kW	125kW	253kW		
Rated grid voltage		3/N/PE, 230/400V	3/PE, 600V	3/PE, 800V		
Rated grid frequency		50Hz/60Hz	50 / 60 Hz	50Hz		
AC output frequency range		45-55Hz/55-60Hz		45-55Hz		
Rated grid current	115.5A	152A	120 A	166.0A		
Max. output current	133.7A	167.1A	120 A	182.6A		
Power Factor (at rated output power)		>0.99 (Adjustable from 0.8 leading to 0.8 lagging)				
THDi (at rated output power)		<3%				
DC injection current		0.5%In				
Efficiency						
Max. efficiency (DC-AC)	99.00%	99.00%	99.1%	99.0%		
Eu efficiency (DC-AC)	98.40%	98.30%	98.6%	98.5%		
MPPT efficiency		99.5%				
PROTECTION						
Anti-islanding protection		Yes				
DC reverse-polarity protection		Yes				
Insulation resistance monitoring		Yes				
Residual current detection		Yes				
DC surge protection		Type II / Type I + II				
AC surge protection		Type II				
Grid monitoring		Yes				
Strings monitoring		Yes				
I/V Curve scanning		Yes				
Anti-PID Function	Yes		Optional			
DC arc-fault circuit protection	Yes		Optional			
Integrated DC switch		Yes				
General Data						
DC connection		MC4				
AC connection	OT Terminal connectors		OT Terminal connectors (Max. 185 mm)			
Display		LCD, 2 x 20 Z.				
Communication		RS485 (Standard) PLC (optional)				
Topology		Transformerless				
Self consumption (night)		< 2w				
Operating ambient temperature range		-25-+600C				
Relative humidity		0-100%				
Ingress protection	IP65		NEMA5x / IP65	IP65		
Noise emission (typical)		55dB (A)				
Cooling concept		Intelligent redundant fan-cooling				
Max. operation altitude		4000 m				
Weight (kg)		< 84kg		100kg		
Dimensions (W*H*D) mm	1050*567*286.5	1050*567*315	1176*713.5*315	1120*686*375		

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IGPB SERIES

SINGLE PHASE

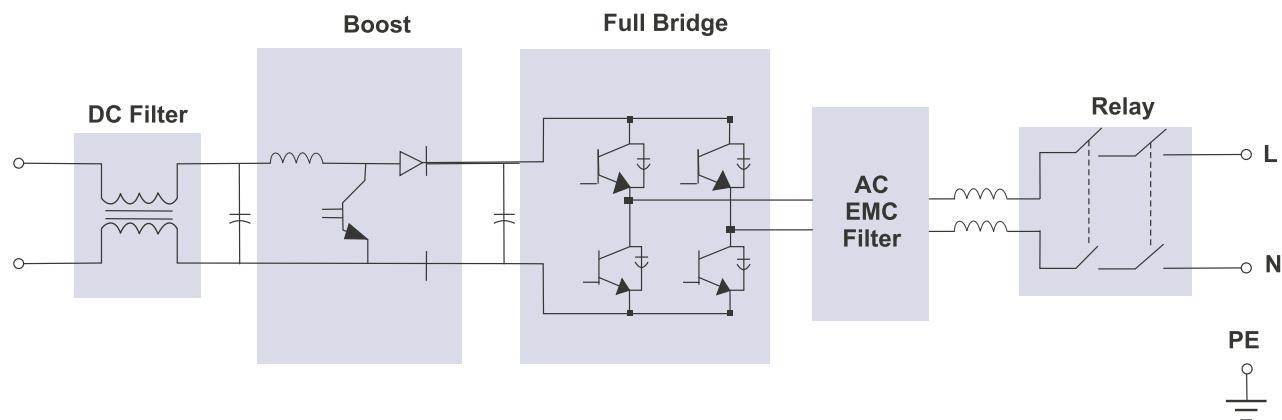
1kw - 5kw



**Superior
Efficiency upto 97.6%**

- Weather-proof design (IP65 / IP54) for outdoor installation
- MPPT efficiency > 99.9%
- LCD display panel
- Option of online web-based monitoring
- Highly reliable with complete protective functions
- Wide DC input voltage range
- Water-proof direct plug-in terminals
- Compact design with high quality housing

BLOCK DIAGRAM



IGPB SERIES - SINGLE PHASE | TECHNICAL SPECIFICATION

MODELS	IGPB-1kw	IGPB-2kw	IGPB-3kw	IGPB-4kw	IGPB-5kw
INPUT SIDE DATA					
Max. PV input power (W)	1200	2400	3600	4800	6000
Max. DC voltage (V)	500	500	600	600	600
MPP Voltage Range (VDC)	90-450	90-450	90-520	150-520	150-520
Min Startup voltage	90	90	90	150	150
Max. Input Current (Amps)	11	11	11	15	15
No. of MPPT	1	1	1	2	2
Max. Number of PV strings per MPPT	1	1	1	1	1
AC SIDE DATA					
Rated Output Data (W)	1000	2000	3000	4000	5000
Rated Grid Voltage (VAC)	220 / 230 / 240				
Grid Voltage Range (VAC)	180 - 270				
Rated AC Current (Amp)	5.5	10	15	18	25
Rated Grid Frequency (Hz)	50 / 60				
Grid Frequency Range (Hz)	47 - 53 / 57 - 63				
Output Current THD	< 3% (at nominal power)				
Power Factor	> 0.99 (at nominal power)				
SYSTEM					
Max. Efficiency	97%	97.3%	97.5%	97.5%	97.6%
Euro. Efficiency	96.3%	96.7%	97%	97.5%	97.1%
Protection Degree	IP65 (Outdoor)				
Night Power Consumption	< 1 W				
Operating Temperature	-25 to +60 Deg. C				
Cooling Method	Convection				
Relative Humidity	0 - 95%, non condensing				
Max. Working Altitude	4000 mtr				
DC connection type	SUNCLIX/MC4				
AC connection type	Screw damp/plug-in				
DISPLAY AND COMMUNICATIONS					
Display	LCD (16 x 2 characters)				
Standard Comm. Interfaces	RS485 / USB				
Optional Comm. Interfaces	Ethernet				
MECHANICAL					
Dimensions (W x H x D) mm	346 x 346 x 132	346 x 346 x 132	346 x 346 x 146	405 x 480 x 200	405 x 480 x 200
Net Weight (kg)	6.5	6.5	6.8	19.5	19.5

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