SOLAR POWER PACKS
ON-GRID SYSTEMS

JAKSON™ EMPOWERING PEOPLE

SYSTEM COMPONENTS

PV MODULES

- Superior quality modules manufactured as per IEC & BIS standards
- Manufactured in state-of-the-art facility located in Greater Noida, UP
- Sand & dust storm resistant, ensures long life
- Good quality tempered glass with Anti - reflective coating improves light transmission
- Excellent performance in low light ensures better output
- High Efficiency modules ensures better yield
- 5 years of manufacturing & 25 Years of Limited Power Output Warranty**

ON-GRID INVERTER

- High Frequency, transformer less design makes the product highly efficient and compact
- High conversion efficiency of upto 98.3%, enables it to deliver better performance
- Build with fast MPPT & Inverter technology with integrated safety conforming to IEC standard
- IP65 Enclosure suitable for outdoor application ensures protection against extreme weather conditions
- Anti - Islanding protection, protects against shock hazard at the time of grid failure
- Wide temperature range from -25°C to 60°C enables working in all parts of the country
- 5 Years of Manufacturing Warranty**

MODULE MOUNTING STRUCTURE

- In-house manufacturing facility
- Superior quality pre-galvanized / post GI material used for longer life
- Strong mechanical strength which is capable of handling wind speed of up to 150km/hr
- Pre-galvanized sheets makes the manufacturing process fast, providing uniform finishing
- Good quality rust free hardware ensure better structural life
- 10 Years of Manufacturing Warranty**

Images shown are indicative. Actual product may vary

ADDITIONAL ACCESSORIES (OPTIONAL)

No Grid Feed System
This unit enables protection against grid feed in case load is less than the Solar Power generated.

Remote Monitoring System
This unit provides real time monitoring and logging of the relevant parameters of the System.

APPLICATIONS

SCHOOL / COLLEGES

HOME & OFFICES

INDUSTRIAL / COMMERCIAL

HOSPITALS

**Warranty shall be provided to original buyer of the product from the company/company's authorized channel partner / System Integrator/Dealer. Warranty shall be void in case of improper handling/installation or operation and maintenance is not done as recommended or the product is serviced by unauthorized person.

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SOLAR POWER PACKS
ON-GRID SYSTEMS

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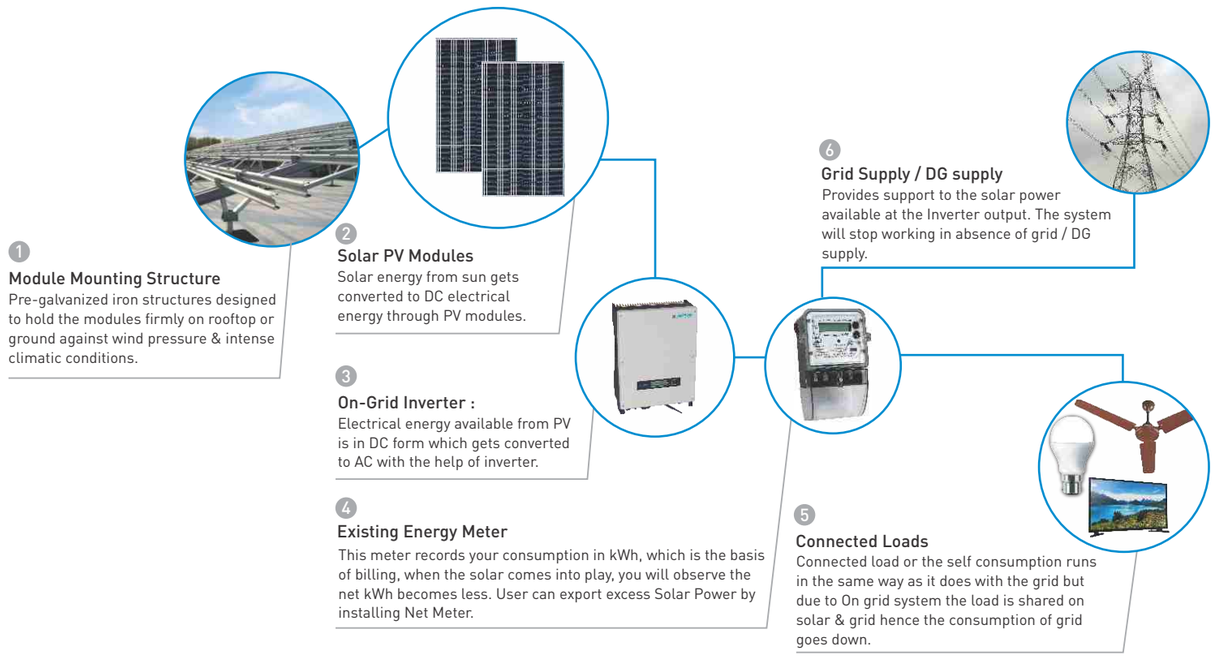
Solar on-grid power packs are ready to use solar power solutions which convert solar energy into electrical energy using solar inverters for ready consumption. In an on-grid system there are is no power storage and electricity generated by the system is used by consumers directly. Jakson on-grid solar power packs are manufactured for use in establishments connected to the electricity grid. The system also provides the opportunity to feed surplus power to the main electricity grid through use of net metering facility (subject to local laws).



SOLAR POWER PACKS
ON-GRID SYSTEMS

TECHNICAL SPECIFICATION & FEATURES OF THE SYSTEM

	SINGLE PHASE PACKAGES					THREE PHASE PACKAGES						
Rating	1KW- Single Phase	1.5KW- Single Phase	2KW- Single Phase	3KW- Single Phase	5KW- Single Phase	10KW- Three Phase	15KW- Three Phase	20KW- Three Phase	30KW- Three Phase	40KW- Three Phase	50KW- Three Phase	60KW- Three Phase
Model No	JS-GTS-1.0-1P	JS-GTS-1.5-1P	JS-GTS-2.0-1P	JS-GTS-3.0-1P	JS-GTS-5.0-1P	JS-GTS-10-3P	JS-GTS-15-3P	JS-GTS-20-3P	JS-GTS-30-3P	JS-GTS-40-3P	JS-GTS-50-3P	JS-GTS-60-3P
SOLAR PV MODULE												
Module Rating (Wp)/Qty.(Nos)/Cells	250/4/72	260/6/60	260/8/60	310/10/72	315/16/72	315/32/72	315/48/72	315/64/72	315/96/72	320/128/72	320/160/72	315/192/72
Voc/Vmp of module(Volt)	44.5/35.6	37.40/31.0	37.40/31.0	45.5/37.0	45.6/37.1	45.6/37.1	45.6/37.1	45.6/37.1	45.6/37.1	45.8/37.1	45.8/37.1	45.6/37.1
Isc /Imp of module(Amp)	7.45/6.97	9.27/8.39	9.27/8.39	8.85/8.38	9.00/8.51	9.00/8.51	9.00/8.51	9.00/8.51	9.00/8.51	9.10/8.63	9.10/8.63	9.00/8.51
Module Connection Combination (Series-Paraller)	4(S)	6(S)	8(S)	10(S)	8(S)2(P)	16(S)2(P)	16(S)3(P)	16(S)4(P)	16(S)6(P)	16(S)8(P)	16(S)10(P)	16(S)12(P)
STRING INVERTER												
Inverter Power Rating (KW)	1	1.5	2	3	5	10	15	20	30	50	50	60
Inverter Technology	Transformer less					Transformer less						
Inbuilt DC Switch	Provided					Provided						
Maximum DC Input Power (KW) / Voltage (Vdc)	1.3/500	1.95/500	2.6/500	3.9/500	6.5/500	13/1000	19.5/1000	26/1000	39/1000	65.0/1000	65.0/1000	78/1000
MPPT DC Voltage Range (Vdc)	90-490		100-490			250-950						
No of MPPT trackers	1					2			3			
Max. Input Current for Each Tracking(A)	1/11		1/13		2/13	2/21			3/26	3/36	3/40	
Interface/Remote Monitoring	RS485 (WiFi Plug/GPRS Plug optional)					RS485 (WiFi Plug/GPRS Plug optional)						
Rated AC Output Power (KW@P.f=1)	1	1.5	2	3	5	11	16	22	33	55	55	66
Phase/Rated Output Voltage (vac)/Connections	Single Phase/3Wire(LN+E)					3Phase 4Wire+Ground(3W+N+PE/3W+PE)						
AC Voltage Range(Vac)	230 ± 20%					400 ± 20%						
Output Frequency Range(Hz)	50/60 ±5					50/60 ±5						
Power Factor	1				Lagging 0.9~leading 0.9	0.8leading-0.8lagging						
THD	<3%					<3%						
Consumption : Standby / Night	<5W/<0.2W					<5W/<0.2W						
Maximum Efficiency	96.50%	96.50%	97.60%		97.50%	98.00%	98.00%	98.00%	98.30%	98.60%		
Euro Efficiency	96.00%	96.00%	97.00%		97.00%	97.50%	97.50%	97.50%	98.00%	98.20%		
Operational Temperature	-25˚C to +60˚C					-25˚C to +60˚C						
Protections (For All Rating)	Anti-Islanding Protection / AC Leakage Current Fault Protection / DC Reverse-Polarity Protection/Ac -Dc Surge					Protection / Dc Over Voltage Protection /Ground Fault Protection						
MODULE MOUNTING STRUCTURE												
Module Mounting Structure	Pre-Galvanized / Post GI options available					Pre-Galvanized / Post GI options available						
BOS ITEMS (OPTIONAL)												
AC Distribution Box	ACDB single phase with CRCA Enclosure IP55, Double Door with canopy & Single Phase Energy meter, AC SPD Type-II, cable gland					ACDB Three phase with CRCA Enclosure IP55,Double Door with canopy & Three Phase Energy meter, AC SPD Type-II, Cable gland						
DCDB / AJB	DCDB 1IN 1OUT (1MPPT) with polycarbonate IP65 Box, DC fuse on +ve side, type-II SPD for each MPPT, earth terminal, MC4 connector on input side & gland for o/p cable			DCDB 2 IN 2 OUT (2MPPT) with polycarbonate IP65 Box, DC on +ve side, type-II SPD for each MPPT, earth terminal, MC4 connector on input side & gland for o/p cable		DCDB 3 IN 3 OUT (2MPPT) with polycarbonate IP65 Box, DC Fuse on +ve side, type-II SPD for each MPPT, earth terminal, MC4 connector on input side & gland for o/p cable		DCDB 4 IN 4 OUT (2MPPT) with polycarbonate IP65 Box, DC Fuse on +ve side,type-II SPD for each MPPT, earth terminal ,MC4 connector on input side & gland for o/p cable	DCDB 6 IN 6 OUT (3MPPT) with polycarbonate IP65 Box, DC fuse on +ve side, type-II SPD for each MPPT, earth terminal, MC4 connector on input side & gland for o/p cable	DCDB 10 IN 10 OUT (3MPPT) with polycarbonate IP65 Box, DC fuse on +ve side, type-II SPD for each MPPT, Earth terminal,MC4 connector on input side & gland for o/p cable	
Earthing Kit	Specifications of earthing kit - Copper bonded rod earthing (Diameter -17.2 mm, Length - 3000 mm, 250 micron copper coating) with 25 KG BFC, clamp & solar PVC pit cover											
Lightning Arrester	2000 mm long 16mm dia with five spike and base plate made in high grade aluminium with copper coating											
Earthing Strip	25X3 GI Strip											
AC Cable	As per current rating											
DC Cable with MC4 Connector	1C x 4 sq mm, PVC insulated, UV Protected Cu. Cable											
MC4 Connector / Y-Shape Connector	As per requirement											

* The technical specifications are subject to change without any prior notice.

OPTIONS AVAILABLE

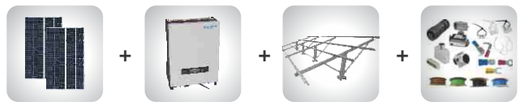
OPTIONS – I

PV Module + PV Inverter

OPTIONS – II

PV Module + PV Inverter + Structure

OPTIONS – III



PV Module + PV Inverter + Structure + BOS

The Balance of Supply (BOS) implies to :

- Solar Cables & Wires
- Lugs & Connectors
- MC4 Connectors
- Earthing System
- Lightning Arrestor
- Junction & Distribution Boxes
- Fuses & Breakers