

SOLAR ON-GRID KIT 2KW - 60KW



SYSTEM COMPONENTS

PV MODULES

- Superior quality modules manufactured as per IEC & BIS standards
- Manufactured in a state-of-the-art facility located in Greater Noida, UP
- PID, sand & dust storm resistant, ensures long life
- 3.2 mm tempered glass with anti-reflective coating improves light transmission
- Excellent performance in low light ensures better output
- High Efficiency modules ensures better yield
- 10 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 98.8%, enables it to deliver better performance
- Build with fast MPPT & Inverter technology with integrated safety conforming to IEC standards
- IP65 enclosure suitable for outdoor application protecting against extreme weather conditions
- Anti-Islanding protection to prevent shock hazard at the time of grid failure
- Wide temperature range from -25°C to 60°C enables uninterrupted operations
- 5/7 Years of Manufacturing Warranty**

MODULE MOUNTING STRUCTURES

- 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 180 km/hr
- Pre-galvanized sheets provides for faster manufacturing process and uniform finishing
- Good quality rust free hardware ensures better structural life
- 5 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

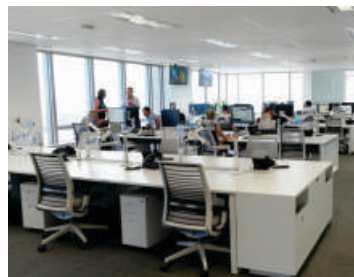
This unit provides real time monitoring and logging of the relevant parameters of the system.



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/ operation & maintenance is not done as recommended/ the product is serviced by unauthorized person

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Product specifications are subject to change without notice.
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One stop solar solution

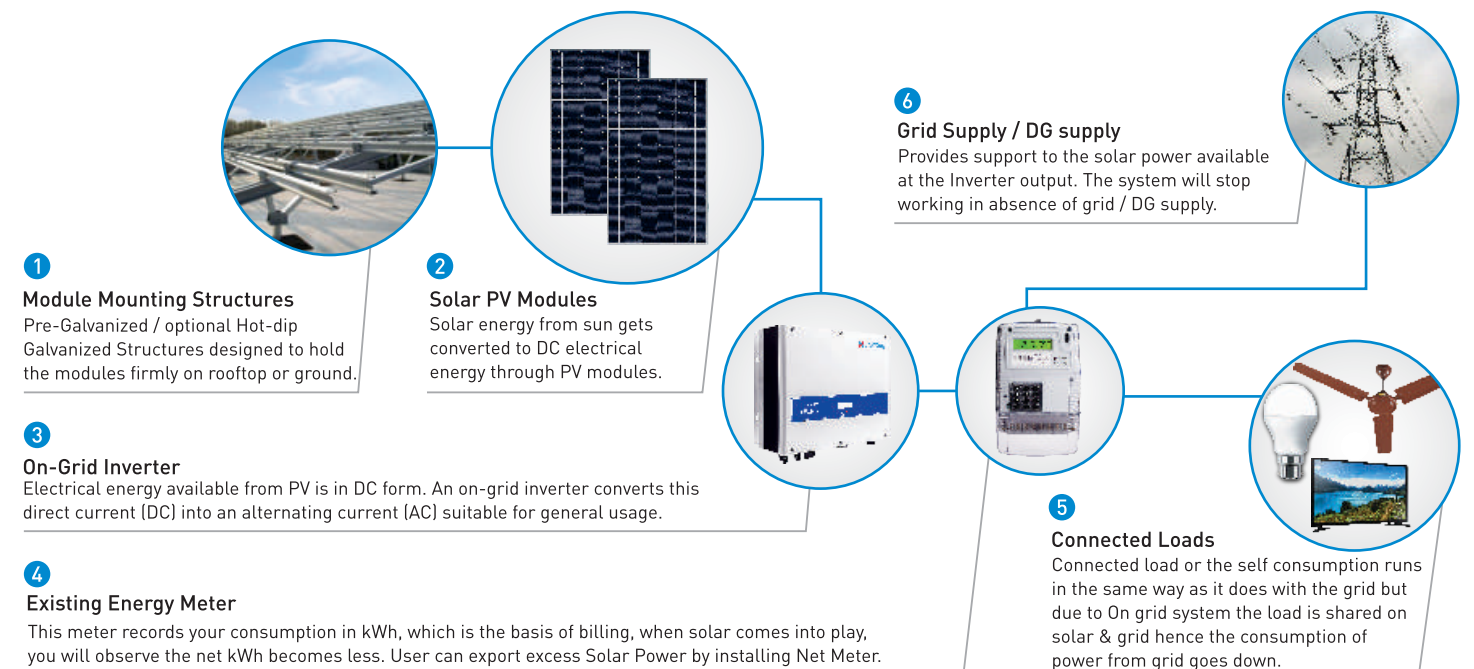
Save up to 70% on your electricity bills

Return on investment in 3-4 years

Export excess power to grid through net metering

Sustainable clean & green energy solution

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



All BOS Items Included

AC Distribution Box

DCDB / AJB

Lighting Arrester

AC Cable

DC Cable with MC4 Connector

MC4 Connector/ Y-Shape Connector

TECHNICAL SPECIFICATION & FEATURES OF ON-GRID KIT

	SINGLE PHASE KIT				THREE PHASE KIT							
Rating	2KW	3KW	4KW	5KW	8KW	10KW	15KW	20KW	25KW	30KW	50KW	60KW
Model No	JS-GTS-2-1P	JS-GTS-3-1P	JS-GTS-4.2-1P	JS-GTS-5-1P	JS-GTS-8-3P	JS-GTS-10-3P	JS-GTS-15-3P	JS-GTS-20-3P	JS-GTS-25-3P	JS-GTS-30-3P	JS-GTS-50-3P	JS-GTS-60-3P
SOLAR PV MODULE												
Module Rating (Wp)/ Qty.(Nos)/ Cells	330/6/72	330/9/72	330/12/72	330/16/72	330/24/72	330/30/72	330/46/72	330/61/72	330/76/72	330/91/72	330/152/72	330/182/72
Voc/ Vmp of module (Volt)	45.94/37.25	45.94/37.25	45.94/37.25	45.94/37.25	45.94/37.25	45.94/37.25	45.94/37.25	45.94/37.25	45.94/37.25	45.94/37.25	45.94/37.25	45.94/37.25
Isc/ Imp of module (Amp)	9.41/8.86	9.41/8.86	9.41/8.86	9.41/8.86	9.41/8.86	9.41/8.86	9.41/8.86	9.41/8.86	9.41/8.86	9.41/8.86	9.41/8.86	9.41/8.86
Module Connection Combination (Series-Paraller)	6(S)	9(S)	6(S)2(P)	8(S)2(P)	12(S)2(P)	15(S)2(P)	16*1(S)/15*2(S) 3(P)	16*1(S)/15*3(S) 4(P)	16*1(S)/15*4(S) 5(P)	16*1(S)/15*5(S) 6(P)	16*2(S)/15*8(S) 10(P)	16*2(S)/15*10(S) 12(P)
INVERTER												
Inverter Power Rating (KW)	2	3	4.2	5	8	10	15	20	25	30	50	60
Inverter Technology	Transformer-less											
Inbuilt DC Switch	Provided											
Maximum DC Input Power (KW)/ Voltage (Vdc)	1.3/450	3.9/550	7/550	9.6/1000	12/1000	18/1000	26/1100	32.5/1100	37.5/1000	65/1000	78/1000	
MPPT DC Voltage Range (Vdc)	70-450	70-550	80-550	200-1000								
No. of MPPT trackers	1	1	2/1	2/1		2/2+1	2/2	2/2+3	2/4	3/4+3+3	3/4+4+4	
Max. Input Current for each tracking (A)	11A	13A	2*12.5A	2*11.5A	2*13A	1*20A/1*10A	2*25A	5*12.5A	8*12.5A	1*50+2*37.5A	1*50+2*37.5A	
Interface/ Remote Monitoring	RS232/ (WiFi Plug/ GPRS Plug (optional)/ ETHERNET LAN)						RS 485/ RS 232/ WiFi/ GPRS/ ETHERNET LAN)					
Rated AC Output Power (KW@P.f=1)	2	3	5	5	8	10	15	20	25	30	50	50
Phase/ Rated Output Voltage (Vac)/ Connections	Single Phase/ 3 Wire (LN+E)						3P + N + E					
AC Voltage Range (Vac)	220V/ 230V/ 240V						230/ 400V					
Output Frequency Range (HZ)	50Hz, 60Hz / ±5Hz											
Power Factor	0.8 leading... 0.8 lagging											
THD	<3%											
Consumption: Night	<0.5W						<1W					
Maximum Efficiency	97.40%	97.60%	98.40%	98.40%	98.30%	98.40%	98.40%	98.75%	98.80%	98.90%	98.70%	98.80%
Euro Efficiency	97.00%	97.30%	97.50%	97.50%	97.80%	98.00%	98.00%	98.60%	98.50%	98.40%	98.50%	98.50%
Operational Temperature	-25 °C to +60 °C											
PROTECTIONS (For All Rating)	DC reverse polarity protection, Surge Protection, Over Current & Over Voltage Protection, Varistor Ground fault monitoring, Grid monitoring, Integrated all-pole sensitive leakage current monitoring unit											
MODULE MOUNTING STRUCTURES												
Module Mounting Structures	Standard Pre-Galvanized / Customized Hot-dip Galvanized Structures											
BOS Items												
AC Distribution Box	ACDB single phase IP55, AC SPD Type-II, cable gland						ACDB Three phase, IP55, AC SPD Type-II, cable gland					
DCDB/ AJB	DCDB 1 IN 1 OUT (1 MPPT)	DCDB 2 IN 2 OUT (2 MPPT)				DCDB 3 IN 3 OUT (2 MPPT)			-			
Lighting Arrester	2000 mm long 16mm dia with five spike and base plate made in high grade aluminium with copper coating											
AC Cable	As per cable 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											
Miscellaneous												
Zero Export	Optional											
DG Synchronization	Optional											
Warranty	Standard warranty: Solar modules - 10 years against any manufacturing defects / Inverter - 5 years and extendable up to 7 years / Consumables - SPD & MCB are not covered in warranty * Warranty will be null & void in absences of protections & wrong installation											
Certifications	BIS & IEC certifications for Solar Modules / IEC certifications for Inverter											