## **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
- Warranty\*\*: 25 Years of performance Warranty as per Jakson policy for modules

#### **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/ Galvalume used for longer life
- Strong mechanical strength which is capable of handling wind speed of up to 160 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**









**HOME & OFFICES** 

INDUSTRIAL / COMMERCIAL

\*\*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

### **JAKSON ENGINEERS LIMITED**

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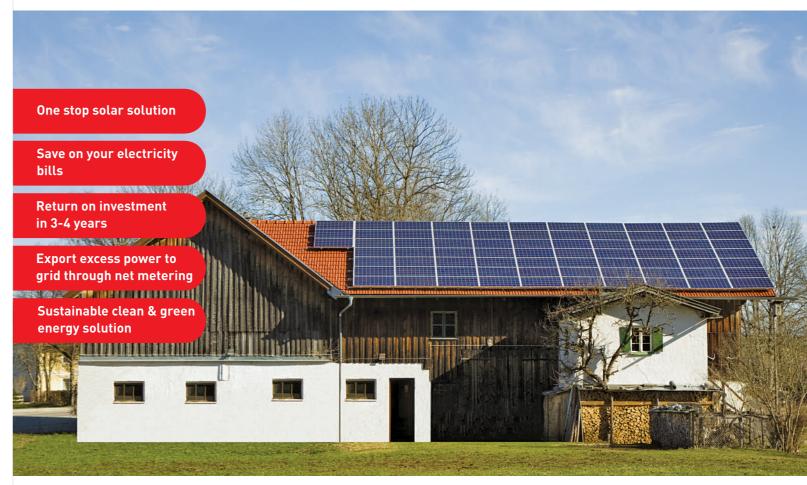
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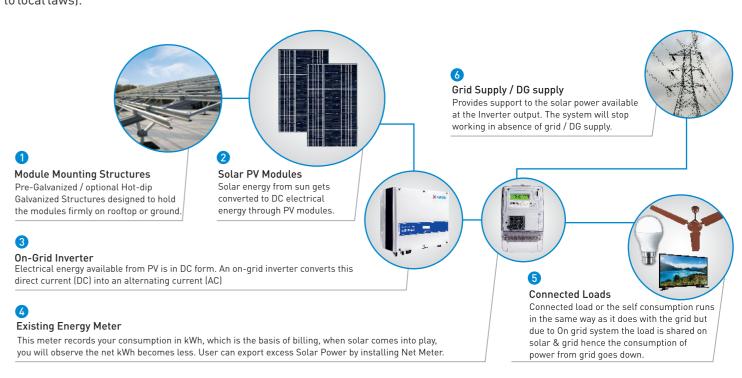
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2KW - 60KW





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).



OS Items

AC Distribution Box

DCDB / AJB

Lighting Arrester

AC Cable

DC Cable with MC4 Connector

MC4 Connector/ Y-Shape Connector

# **SOLAR ON-GRID KIT**

# 2KW - 60KW

# **TECHNICAL SPECIFICATION & FEATURES OF ON-GRID KIT**



	S	INGLE PHASE	KIT		THREE PHASE KIT						
Rating	2KW	3KW	6KW	5KW	10KW	15KW	20KW	25KW	30KW	50KW	60KW
Model No	JS-GTS-2-1P	JS-GTS-3-1P	JS-GTS-6-1P	JS-GTS-5-3P	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	330/18/72	330/15/72	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
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
Module Connection Combination (Series-Paraller)	6(S)	9(S)	9(S)2(P)	8*1(S)/7*1(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(I
STRING INVERTER											
Inverter Power Rating (KW)	2	3	6	5	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	8.1/550	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 80-550 140-1000 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*11A	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/ETHERNAT LAN)  RS 485/RS 232/WiFi/GPRS/ETHERNAT LAN)										
Rated AC Output Power (KW@P.f=1)	2	3	6	5	10	15	20	25	30	50	50
Phase/Rated Output Voltage(vac)/Connections	Sin	gle Phase/3Wire(LN	l+E)	3P + N + E							
AC Voltage Range(Vac)	220V/230V/240V 230/400V										
Output Frequency Range(HZ)	50Hz,60Hz /±5Hz										
Power Factor	0.8leading0.8lagging										
THD	<3%										
Consumption : Night			<0.5W	<1W							
Maximum Efficiency	97.40%	97.60%	98.40%	98.00%	98.40%	98.40%	98.75%	98.80%	98.90%	98.70%	98.80%
Euro Efficiency	97.00%	97.30%	97.50%	96.70%	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 Structure ( With Hardware)	Special designed for Solar Kits Galvalume/Pre-Galvanized structure capable to withstand upto 160km/hr										
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 1IN 10UT (1MPPT) DCI			DB 2IN 20UT (2MPPT)		DCDB 3IN 30UT (2MPPT)	-				
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 sqmm,PVC insulated, UV Protected Cu. Cable										
MC4 Connector/Y-Shape Connector	As per requirement										
Miscellaneous											
Zero Export	Optional										
DG Synchronization	Optional										
Warranty	Standard system warranty 2 years against manufacturing defects / Consumables - SPD & Fuses are not covered in warranty/* Warranty will be null & void in absences of protections & wrong installation										