KSolare Energy Pvt. Ltd.

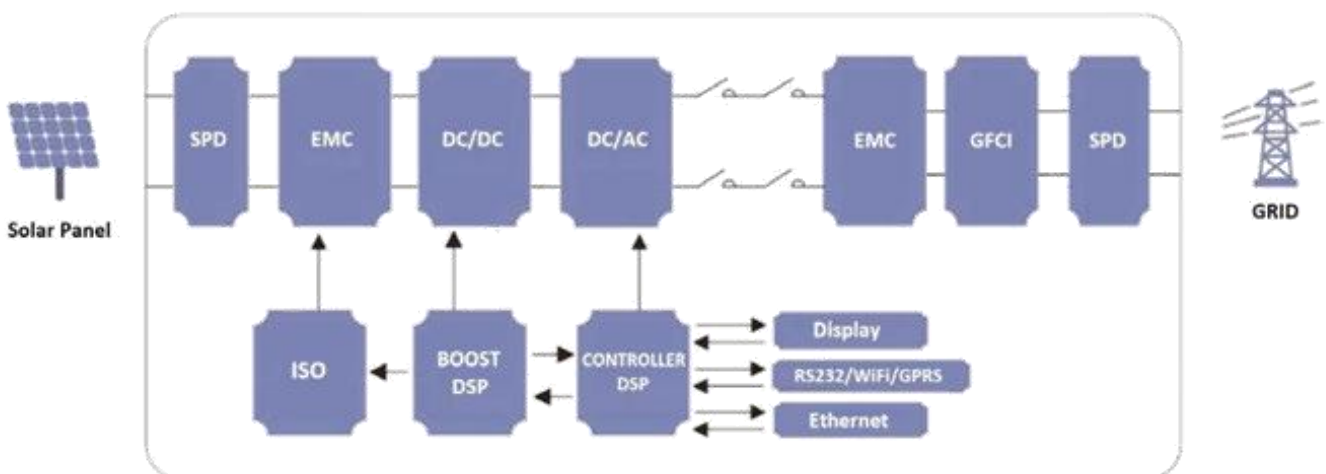
Single-Phase String Inverters

KSY 4KW-6.2KW - Dual MPPT

Innovation | Concentration | Intelligent | Profitable

FEATURES	ADVANTAGES	BENEFITS
Components from world class suppliers	Longer MTBF (Mean Time Between Failures)	More electricity output Less down time
Automotive class PCB technology	Higher quality guaranteed	Higher quality guaranteed
Optimized thermal design	Lower heat generation Faster heat dissipation	Realiable and stable under severe conditions
Silicone Rubber Gaskets & Seals	High performance sealing	Lower internal operation temperature Longer component life
Integrated enclosere design	High performance sealing possible Less chance of moisture invasion	Suitable for humid operation environments
Integrated air valve	Reduction of condensation	Operationable in more applications: fishing ponds, agricultural area, greenhouses, coastal areas
1000 hours of neutral salt spray testing	Sutaible for harsh environments	Easy installion and maintenance possible
User friendly interface	Easy to operate	Data analysis Less maintenance
Intelligent monitoring system	Easy to manage and maintain	

CIRCUIT DIAGRAM



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TECHNICAL DATA

Model (KSY)	4 KW	4.2 KW	5 KW	5.2 KW	5.3 KW	6 KW	6.2 KW
Input (DC)							
Max Peak DC Input Power (KW)	4.8	5	6	6.2	6.4	6.5	6.6
Max. DC I/P (V dc)	500V DC						
Max. MPPT I/P Current(A)	10A						
MPPT Short Circuit Current(A)	15A						
MPPT Tracking Voltage(Vdc)	100-500V						
Min. Start Voltage(V)	120V						
Number of MPPT Tracker	2						
strings per MPPT Trackers	1						
Output (AC)							
Rated output power (KW)	4	4.2	5	5.2	5.3	6	6.2
Max Peak Output Power (KW)	4.4	4.6	5.5	5.7	5.9	6.4	6.5
Nominal Grid Voltage (V)	180-270V Standard | 140-300V User Defined						
Rated Grid Voltage(V)	230V						
Nominal Grid freq.(Hz)	47.5-51.5 HZ OR 57-62Hz						
Max. output current AC(A)	19.1	20	23.9	24.7	25.3	27.8	28.2
AC Connection (With PE)	P + N + E						
THD (%)	<2.3%						
Output Power factor(%)	>99.99%(User Defined from 0.85 to 0.99)						
Efficiency							
Max. conversion eff. (%)	97.5						
Max. Euro Efficiency(%)	97.3						
Max. MPPT Eficiency (%)	>99%						
Physical Parameters							
Dimensions(WXHXD) mm	330*347.5*179						
Weight (Kg)	12.5						
General Data							
Operating Temperature	- 25 ° to +60°						
Operating Surrounding Humidity	0-100%						
Design Life	Over 25 Years						
Night Con. (W)/Noise Level	<0.2/<25dB						
Heat Dissipation	Natural Convection						
RH/Max. Altitude	0% to 98%. No Condensation/<2000 without power derating						
Display	LED with LCD Display						
DC /AC Connectors	MC-4/IP-65 Plug						
Communication Interface	RS 485/RS 232/WiFi/GPRS/ETHERNET LAN						
Standard Warranty	Upto 7 Years						
Standards, Safety & Protections							
DC Switch	Optional						
SPD	Type - 3 SPD With GDT						
MPPT Efficiency	EN 50530						
Inverter Efficiency	IEC 61685						
Protection Class	1(According to IEC 62103)						
Over Voltage Category	PVII / Mains II (According to IEC 62109-1)						
Safety Standard	IEC 62109-1&2						
EMC Standard	IEC61000-6-1/2/3/4						
Emnvironment Protection	IEC 60068-2-1/2/14/15						
Product Safty for relay	IEC 60255-27:2013						
Anti-Islanding	IEC-62116						
Ingress Protection	IP 65 (Accordance to IEC 60529)						
Grid	VDE-ARN-4105, VDE 0126, AS4777, NRS2017, G98, G99, EN50438						
BIS	Applied						
Protection & Safety	PV Lightining,String input Reverse Polarity,DC input short circuit,DC O/V & U/V,Insulation Resistance detection,RCCB/ELCB, Output Over /Under voltage,Outpur Over current, Output Over/Under frequency, LVRT/HVRT, Over temerature,GDI for input & Output, SPC as per capacity-Type-1 & Type-2, AC output PF control,AC output power control by using external limiter for zero export protection,Defined remote Grid monitoring setting & Anti-Islanding.						

Web Monitoring

The KSolare monitoring System is based on , cloud computing, and other new technologies for PV system, from the various device (RS-485,wifi,GPRS,RF) the data is transmitted to remote service platform for data storage & analysis which is displayed in various visual & graphical formats on Web-App & big screen display also for bigger platform it can be customized as per customer request.