KSolare Energy Pvt. Ltd.

Three-Phase String Inverters

KSY 5KW-12KW

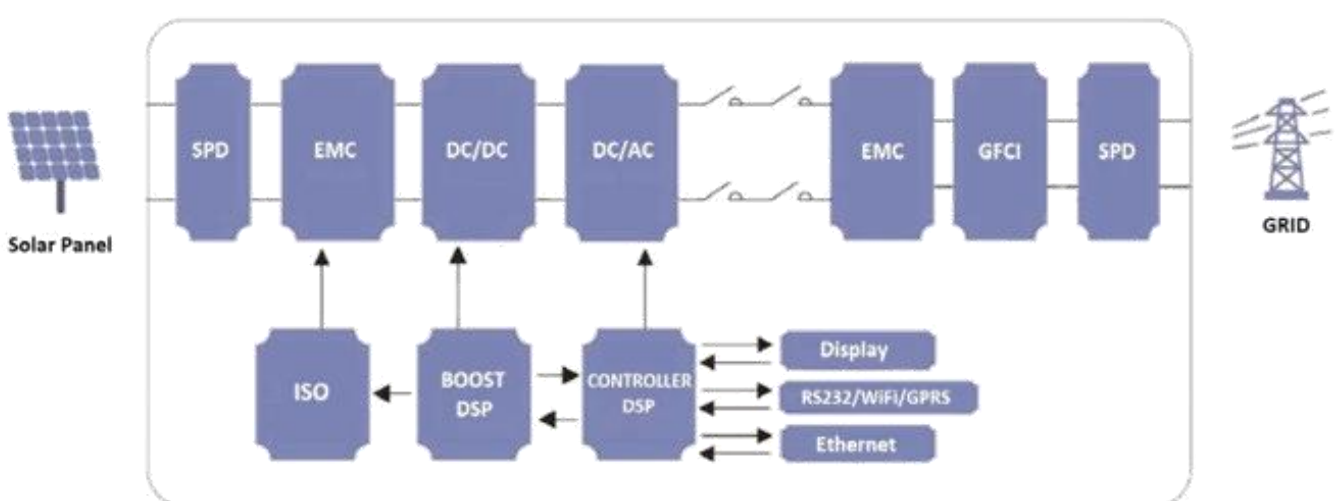
Innovation | Concentration | Intelligent | Profitable

FEATURES
Components from world class suppliers
Automotive class PCB technology
Optimized thermal design
Silicone Rubber Gaskets & Seals
Integrated enclosere design
Integrated air valve
1000 hours of neutral salt spray testing
User friendly interface
Intelligent monitoring system

ADVANTAGES
Longer MTBF (Mean Time Between Failures)
Higher quality guaranteed
Lower heat generation Faster heat dissipation
High performance sealing
High performance sealing possible Less chance of moisture invasion
Reduction of condensation
Sutaible for harsh environments
Easy to operate
Easy to manage and maintain

BENEFITS
More electricity output Less down time
Higher quality guaranteed
Realiable and stable under severe conditions
Lower internal operation temperature Longer component life
Suitable for humid operation environments
Operationable in more applications: fishing ponds, agricultural area, greenhouses, coastal areas
Easy installion and maintenance possible
Data analysis Less maintenance

CIRCUIT DIAGRAM



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TECHNICAL DATA

Model (KSY)	5 KW	6KW	7KW	8KW	9KW	10KW	12KW
Input (DC)							
Max Peak DC Input Power (KW)	6	7	8	9	10	12	13.5
Max. DC I/P (V dc)	1000V DC						
Max. MPPT I/P Current(A)	20A						
MPPT Short Circuit Current(A)	26 Amps						
MPPT Tracking Voltage(Vdc)	200-850V						
Min. Start Voltage(V)	250VDC/ 150VDC(Low) & 1000 VDC(High)						
Number of MPPT Tracker	2						
strings per MPPT Trackers	1						
Output (AC)							
Rated output power (KW)	5	6	7	8	9	10	12
Max Peak Output Power (KW)	5.5	6.6	7.7	8.8	9.9	11	12.7
Nominal Grid Voltage (V)	300-510 V User Defined						
Rated Grid Voltage(V)	415 Vac						
Nominal Grid freq.(Hz)	47-55 HZ / 57-65 Hz Auto Selection						
Max. output current AC(A)	8	9.57	11.11	12.75	14.3	15.94	18.4
AC Connection (With PE)	3P + N + E						
THD (%)	<1.7%						
Output Power factor(%)	>99.99%(User Defined from 0.85 to 0.99)						
Efficiency							
Max. conversion eff. (%)	98.5	98.6	98.6	98.7	98.7	98.8	98.7
Max. Euro Efficiency(%)	98	98.1	98.2	98.3	98.3	98.3	98.4
Max. MPPT Eficiency (%)	>99%						
Physical Parameters							
Dimensions(WXHXD) mm	385 X 479 X 184						
Weight (Kg)	16						
General Data							
Operating Temperature	- 25 ° to + 60°						
Operating Surrounding Humidity	0-100%						
Design Life	Over 25 years						
Night Con. (W)/Noise Level	<1W/<30dB						
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/IP65 Plug						
Communication interface	RS 485/RS 232/WiFi/GPRS/ETHERNET LAN						
Standard Warranty	Upto 7 Years/10 Years (For Selected Model)						
Standards, Safety & Protections							
DC Switch	Including						
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.