KSolare Energy Pvt. Ltd.

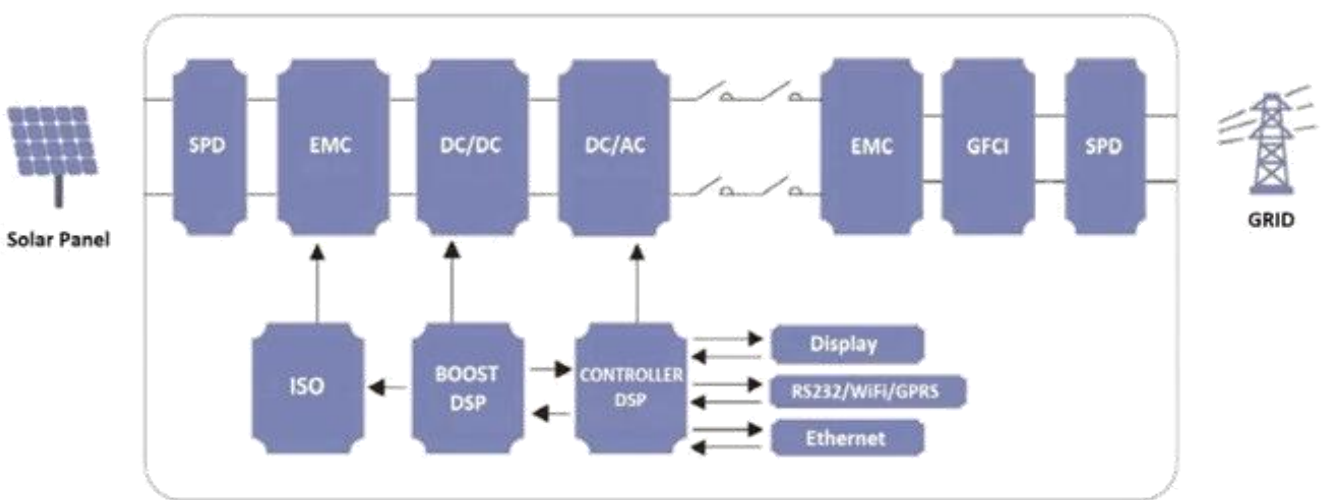
Three-Phase String Inverters

KSY 15KW-25KW

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)	15 KW	18KW	20KW	25KW
Input (DC)				
Max Peak DC Input Power (KW)	17.5	20	22	27.5
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	2			
Rated Output (AC)				
output power (KW)	15	18	20	25
Max Peak Output Power (KW)	16.5	19	21	26.5
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)	23.9	27.5	30.4	36
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	98.7	98.7	98.7
Max. Euro Efficiency(%)	98	98.5	98.2	98.2
Max. MPPT Eficiency (%)	>99%			
Physical Parameters				
Dimensions(WXHXD) mm	455 X 573 X 265			
Weight (Kg)	32			
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	Forced Cooling + 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			Type-2 & 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.