KSolare Energy Pvt. Ltd.

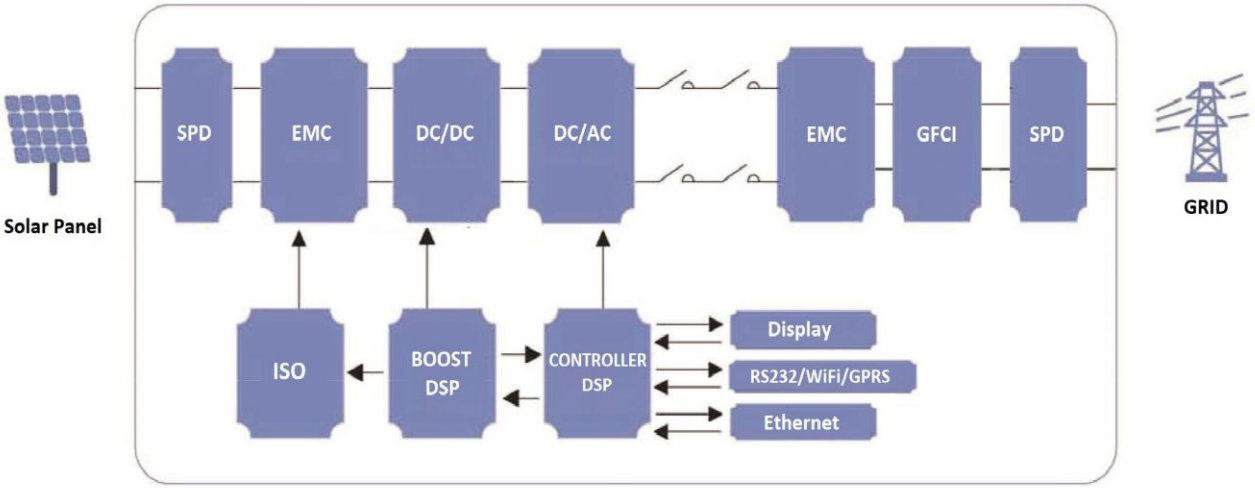
Three-Phase String Inverters

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-15KW	KSY-18KW	KSY-20KW	KSY-25KW
Input (DC)				
Nominal Input Power (KW)	15	18	20	25
Max. Peak DC Input Power (KW)	17.5	20	22	28
Max. DC I/P (V dc)	1000V DC			
Max. MPPT I/P Current(A)	20A			
MPPT Short Circuit Current(A)	26Amps.			
MPPT Tracking Voltage(Vdc)	200-1000V			
Min. Start/Shut down (V)	250VDC/ 150VDC(low) & 1000 VDC(High)			
Number of MPPT Tracker	2			
strings per MPPT Trackers	2			
Output (AC)				
Nominal output power (KW)	15	18	20	25
Max Peak Output Power (KW)	16.5	19	21	26
Nominal Grid Voltage (V)	320-470V User Defined			
Nominal Grid freq.(Hz)	47-55 HZ Auto Selection			
Max. output current AC(A)	22	27	29	36
AC Connection (With PE)	3P + N + E			
THD (%)	<2.3%			
Power factor(%)	>99.99%(User Defined from 0.85 to 0.99)			
Efficiency				
Max. conversion eff. (%)	99	99	98.7	98.7
Max. Euro Efficiency(%)	98.5	98.5	98.2	98.2
Max. MPPT Eficiency (%)	>99%			
Standards, Safety & Protections				
Protection & Safety	DC Reverse Polarity, DC High/Low/Over Current Protection, DC/AC Side SPD, Thermal Protection, GDT, Static ELCB/RCCB,User Define Grid Monitoring Setting & Anti Islanding			
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)			
Physical Parameters				
Dimensions(WXHXD) mm	430 X 600 X 220			
Weight (Kg)	32			
General Data				
Operating Temperature	Minus 25 to Plus 60 Degree			
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/IP65 Plug			
Communication interface	RS 485/RS 232/Hotspot/WiFi/GPRS/ETHERNET LAN			
Standard Warranty	5 Years/10 Years (For Selected Model)			

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) 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.