

Innovation

Concentration

Intelligent

Profitable



FEATURES

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

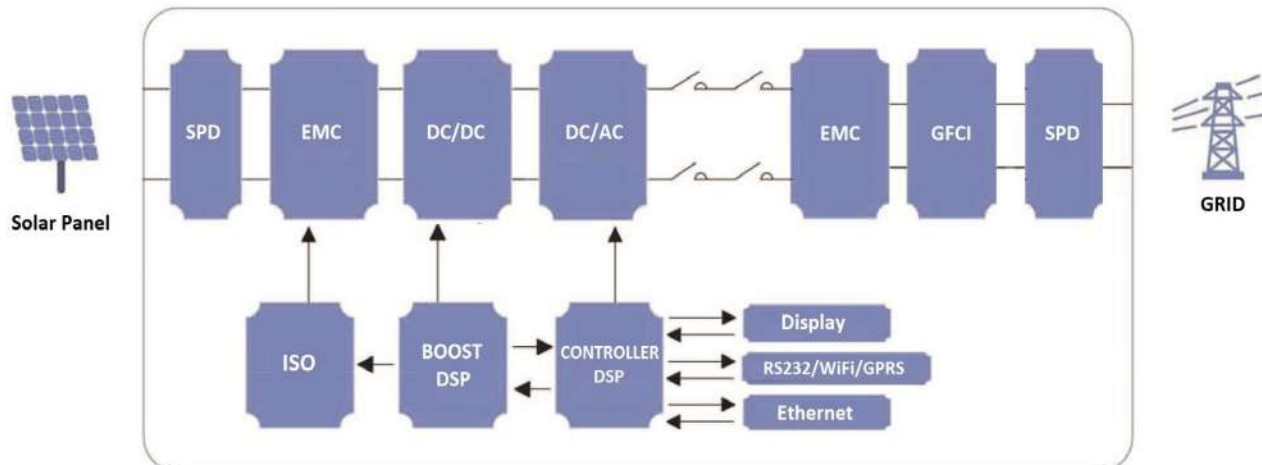
ADVANTAGES

- 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
- Suitable for harsh environments
- Easy to operate
- Easy to manage and maintain

BENEFITS

- More electricity output
Less down time
- Higher quality guaranteed
- Reliable 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 installation and maintenance possible
- Data analysis
Less maintenance

CIRCUIT DIAGRAM



TECHNICAL DATA

Single Phase 1KW - 6.2KW															
Model (KSY)	1 KW	1.2 KW	1.5 KW	2 KW	2.2 KW	3 KW	3.2 KW	3.3 KW	4 KW	4.2 KW	5 KW	5.2 KW	5.3 KW	6 KW	6.2 KW
Input (DC)															
Nominal Input Power (KW)	1	1.2	1.5	2	2.2	3	3.2	3.3	4	4.2	5	5.2	5.3	6	6.2
Max Peak DC Input Power (KW)	1.2	1.4	1.8	2.4	2.6	3.6	3.8	4	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							10A							
MPPT Short Circuit Current(A)	15A							15A							
MPPT Tracking Voltage(Vdc)	70-500V				100-500V										
Min. Start Voltage (V)	80V				120V										
Number of MPPT Tracker strings per MPPT Trackers	1							2							
Output (AC)															
Nominal output power (KW)	1	1.2	1.5	2	2.2	3	3.2	3.3	4	4.2	5	5.2	5.3	6	6.2
Max Peak Output Power (KW)	1.1	1.3	1.6	2.2	2.4	3.3	3.5	3.7	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)	4.7	5.6	7	9.5	10.4	14.3	15.2	15.8	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. (%)	97.3							97.5							
Max. Euro Efficiency(%)	97.3														
Max. MPPT Efficiency (%)	>99%														
Physical Parameters															
Dimensions(WXHXD) mm	330*347.5*127							330*347.5*179							
Weight (Kg)	7.8							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														
Environment Protection	IEC 60068-2-1/2/14/15														
Product Safety 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 Lightning,String Input Reverse Polarity,DC Input short circuit,DC O/V & U/V,Insulation Resistance detection,RCCB/ELCB, Output Over /Under voltage,Output Over current, Output Over/Under frequency, LVRT/HVRT, Over temperature,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,Define d 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.

