

Innovation

Concentration

Intelligent

iPro | e



Components from world class suppliers

Automotive Class PCB Technology

Optimized thermal design

Silicone Rubber Gaskets and Seals

Integrated enclosure design

Integrated air valve

1000 hours of neutral salt spray testing

User friendly interface

Intelligent monitoring system

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 environment

Easy to operate

Easy to manage and maintain

More electricity output

Less downtime

Higher quality guaranteed

Reliable and stable under severe conditions

Lower internal operating
temperature Longer component life
Suitable for humid operation environments

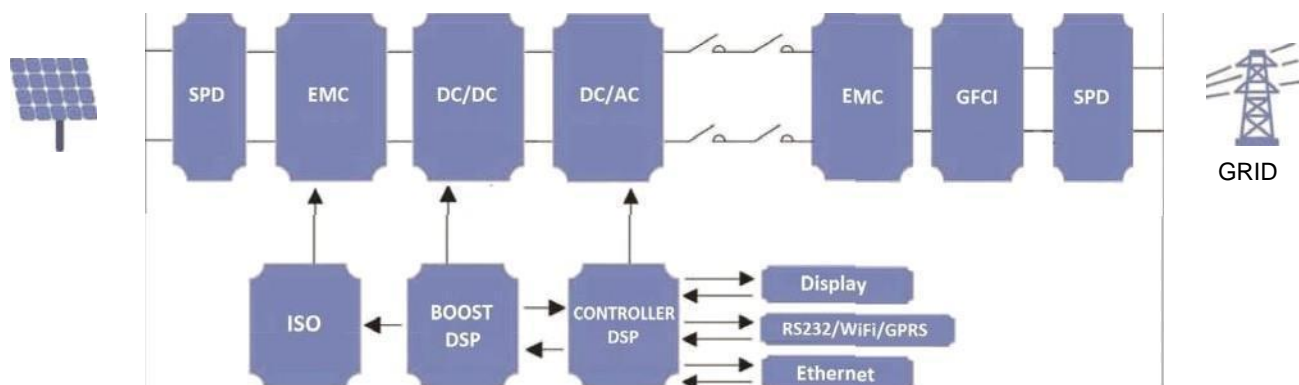
Operable in more applications:
fishing ponds, agricultural area,
greenhouses, coastal areas

Easy installation and maintenance possible

Data analysis

Low maintenance

CIRCUIT DIAGRAM



TECHNICAL DATA

Model (KSY)	1 KW	1.2 KW	2.3 KW	2 KW	2.2 KW	3 KW	3.2 KW	3.3 KW
Input (DC)								
Max Peak DC Input Power (KW)	1.2	1.4	2.7	2.4	2.6	3.6	3.8	4
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)	70-500V				100-500V			
Min. Start Voltage(V)	80V				120V			
Number of MPPT Tracker strings per MPPT Trackers	1							
Output (AC)								
Rated output power (KW)	1	1.2	2.3	2	2.2	3	3.2	3.3
Max Peak Output Power (KW)	1.1	1.3	2.5	2.2	2.4	3.3	3.5	3.7
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	10.9	9.5	10.4	14.3	15.2	15.8
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							
Max. Euro Efficiency(%)	97.3							
Max. MPPT Efficiency (%)	>99%							
Physical Parameters								
Dimensions(WXHXD) mm	330*347.5*127							
Weight (Kg)	7.8							
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 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, A54777, NR52017, 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 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.

