



Three Phase  
On-Grid Solar Inverter

**KSY**  
60kW-125kW

**50%**  
Overloading

## Features



Efficient  
Higher  
Revenue



Factory Testing,  
onsite SMD level  
Service (TAT-  
24~36 WH)



Intelligent  
Simple O&M



Trouble Free  
Reliable

- 4-9-12 MPPT Trackers, 75Amp Infineon IGBT fast dynamic response and higher power generation.
- 150% DC Input Oversizing.
- Maximum efficiency of 98.7%. Wide MPPT voltage range: 180V-1100V.
- Compatible with high power modules.
- Compatible with Diesel Generator & Zero Export Device.
- String Level Monitoring for Maintenance.
- Compatible with AI cable.
- Intelligent Fault Detection: Graphical AC side voltage & current +/-30% waveforms real-time recorded, fast fault location.
- Support RS485/WiFi (Bluetooth 365 days storage optional): remote monitoring and operation via PC or mobile phones.
- IP66 Protection degree: support outdoor installation.
- DC & AC Type II SPD: prevent lightning damage.
- Lowest ripple & derating above 500C due to dynamic & Intelligent airflow technology

## Optional Features

- AFCI Function: when an arc-fault is detected the inverter immediately stops operation.
- Smart I-V Curve Diagnosis Function: locates PV string faults accurately and automatically.
- Anti PID Enhance PV Life.

# SPECIFICATIONS

	KSY60kW	KSY70kW	KSY75kW	KSY80kW	KSY100kW	KSY110kW	KSY125kW
<b>Input (DC)</b>							
Max. Input Power	72kW	84kW	90kW	96kW	130kW	132kW	137.5kW
Max. Input Voltage	1100V						
Start Voltage	250V						
Rated Input Voltage	600V				620V		
Full-load MPPT Voltage Range	530V ~ 850V						
MPPT Voltage Range	200V ~ 1000V				180V ~ 1000V		
Number of MPPT Trackers	4		4		9	10	9
Number of string per MPPT	3 / 3 / 3 / 3		4 / 3 / 3 / 4		2		
Max. Short Circuit Current per MPPT	39A		48A & 36A		30A		40A
Max. Short Circuit Current per MPPT	48A		60A & 45A		40A		50A
<b>Output (AC)</b>							
Max. Output Current	86.70A	101.1A	108.3A	115.60A	158.8A	174.6A	180.63A
Rated Output Power	60kW	70kW	75kW	80kW	100kW	110kW	125kW
Max. Output Power	66kW	77kW	82.5kW	88kW	110kW	121kW	137.5kW
Rated Grid Frequency	50Hz / 60Hz						
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE, 3L / PE						
Power Factor	>0.99 ( 0.8 leading ~ 0.8 lagging )						
THDi	<3% ( Rated Power )						
<b>Efficiency</b>							
Max. Efficiency	98.70%						
European Efficiency	98.50%						
MPPT Efficiency	99.90%						
<b>Protection</b>							
DC reverse polarity protection	Yes						
Anti-islanding protection	Yes						
AC short circuit protection	Yes						
Residual current monitoring unit	Yes						
Insulation resistance monitoring	Yes						
Ground fault monitoring	Yes						
Grid monitoring	Yes						
PV string monitoring	Yes						
Surge protection	Type II						
AFCI protection	Optional						
<b>Communication</b>							
Display	LCD / LED+APP						
Communication	Standar: RS485 Optional: WiFi / Bluetooth						
<b>Standard Compliance</b>							
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC/EN 61000-6-2/4, IEC61727/IEC62116,						
<b>General Data</b>							
Dimensions (W x H x D)	1050 x 660 x 330 mm						
Weight	50kg	95kg	98kg	101kg			
Operating Temperature Range	-30°C ~ +60°C						
Cooling Method	Smart forced air cooling						
Protection Degree	IP66						
Max. Operating Altitude	4000m						
Relative Humidity	0 ~ 100%						
Topology	Transformerless						
Night Power Consumption	<1W						

## Address:

Sr.No. 3, KSolare Technology Park, 7/B/1/4, opp. Hotel Royal Sahyadri, near Poonam petrol pump, Mangdewadi, Pune, Maharashtra 411046

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