

HIVERTER-Si-60K

Three Phase, Multi-MPPT
Grid Tied Solar String Inverter

Key Features

- Wide DC input range
- True three phase bridge, transformerless topology
- Low sensitivity to the grid disturbance to avoid unnecessary disconnection from the grid
- Up to 3 independent MPPT to ensure optimal energy harvest
- MPPT accuracy is more than 99.9%
- Wide operating temperature range from 20°C to 60°C
- IP 65 protection for Indoor & outdoor application
- Easy to install & maintain
- DC power overloading
- User friendly interface like RS 485/Wi-Fi
- Easy to read LCD display with all operational status & necessary data as per requirement
- Reactive power controller
- Type III SPD (Surge Protection Device)
- String current monitoring
- Low Voltage Ride Through (LVRT) compliance
- Remote monitoring using a mobile based application through GPRS/Wi-Fi



Technical Specifications

No.	IEC Standard	IEC Certificate
1	Environmental Testing	IEC 60068-2 (1,2,14,30)
2	Efficiency Measurement	IEC 61683
3	Product Safety Standard	IEC 62109-1, 2
4	Grid Connectivity Standard/ Utility Interface	IEC 61727
5	Test Procedure for Islanding Prevention Measures for Utility Interconnected PV Inverters	IEC 62116 IEEE1547 IEEE1547.1
6	Electromagnet Compatibility & Electro Magnet Interference	IEC 61000-6-1 IEC 61000-6-3 IEC 61000-3-2 IEC 61000-3-3

Technical Specifications

Input (DC)	Si-60K
Recommended PV input power	66000W
Max DC power for single MPPT	22000W/22000W/22000W
Number for independent MPPT	3
Number for DC inputs	4/4/4
Max. input voltage	1000V
Start-up input voltage	350V
Rated input voltage	600V
MPPT voltage range	250V-950V
Full load DC voltage range	530V-800V
Max. input MPPT current	40A/40A/40A
Max. input current per string	12A
Max. DC input short circuit current per MPPT	48A
Output (AC)	
Rated power	60000W
Max. AC power	60000VA
Max. output current	80A
Nominal grid voltage	3/N/PE, 220V/380Vac, 230V/400Vac, 240/415Vac
Grid voltage range	310Vac-220Vac (According to local standard)
Nominal frequency	50/60Hz
Grid frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)
Active power adjustable range	0-100%
THDi	<3%
Power factor	1 default (adjustable ± 0.8)
Performance	
Max. Efficiency up to	98.6%
European weighted efficiency up to	98.4%
Self-consumption at night	<1W
MPPT efficiency	>99.9%
Protection	
DC reverse polarity protection	Yes
DC switch	Yes
Protection class/Overvoltage category	I/III
Input/ output SPD	PV: type II standard, AC: type II
Safety protection	Anti islanding, RCMU, Ground fault monitoring
ARPC	Anti reverse power controller (optional)
Communication	
Power management unit	According to certification and request
Standard Communication mode	RS485, Wifi / Ethernet / GPRS(optional), SD card, Multi-function relay
Operation data storage	25 years
General Data	
Ambient temperature range	-25°C ~ +60°C
Topology	Transformer less
Degree of protection	IP65
Allowable relative humidity range	0-100%
Max. operating altitude	4000m
Noise	≤ 60 dB
Weight	70kg
Cooling	Fan
Dimension (mm)	713 x 737 x 297
Display	LCD display
Standard	
EMC	EN 61000-6-2, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12
Safety standard	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, BDEW, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50438/EN50549, G59, EN50530, NB/T32004

Hitachi Hi-Rel Power Electronics Private Limited

Registered Office:

B-52, Corporate House, Near Judges Bunglow, Bodakdev, Ahmedabad-380054, Gujarat, India.

Manufacturing Works:

Survey # 3 & 4, Sanand GIDC II, Industrial Estate, Nr. Bol Village, Chharodi, Sanand-382110, Gujarat, India.

Authorized distributor:

Loop Solar | P: +919971136369 | E: info@loopsolar.com | W: www.loopsolar.com

In the spirit of innovation, specifications and features are subject to change without notice.



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