

HSHV385K -G01



FEATURES



Efficient

- 8 MPPTs adapts to complex conditions
- 60A MPPT current, compatible with all types modules
- Full power operation at high temperature of 45°C (385K@40°C)
- Advanced SIC design, better efficiency & life time



Intelligent Friendly

- Intelligent I-V scanning to accurately identify abnormal strings
- Support SVG function, SCR weak grid adaptability
- Integrated with Aux. switch, initial debugging at any time
- Support Intelligent fan reverse dust removal



Reliable

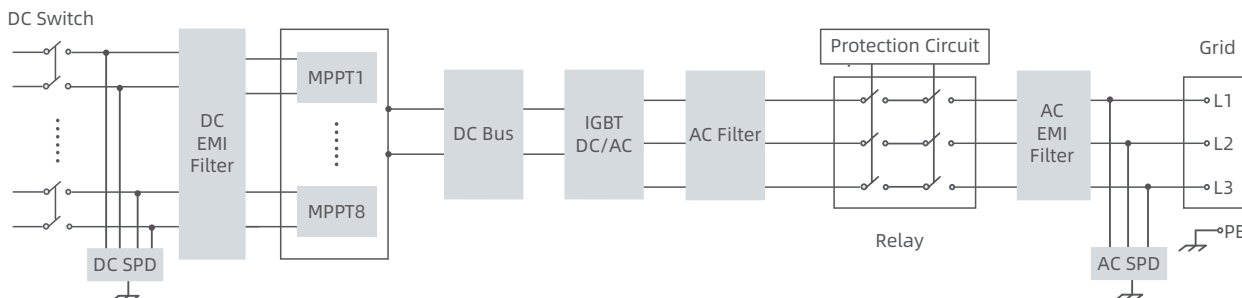
- IP66, C5 anti-corrosion for harsh environment
- AFCI (optional), DC&AC terminal temperature protection with smart DC switch
- Explosion relief valve for on-site personal safety



Economy Friendly

- Wi-Fi/PLC communication to reduce wiring costs
- Compatible with Aluminium AC cable up to 400mm²
- PID recovery/Anti-PID function, more energy, less maintenance

TOPOLOGICAL GRAPH



PARAMETERS

Model	HSHV385K-G01
DC Input	
Max. Input Voltage	1500 V
Starting Voltage	550 V
MPPT Voltage Range	500~1500 V
MPPT Range Full Load	860~1300 V
Max. Input Current Per MPPT	60 A
Max. Short-circuit Current	90 A
Number of DC Inputs	8 × 4
Number of MPP Trackers	8
AC Output	
Rated Output Power	385 kW
Max. Output Power	385 kW
Rated Output Voltage	800 V (3W + PE)
Operating Voltage Range	640~920 V
Rated Output Current	277.9 A
Max. Output Current	277.9 A
Rated Grid Frequency	50 Hz / 60 Hz
Power Factor	>0.99 (0.8 leading~0.8 lagging)
Harmonic (THDi)	<3% (at rated power)
Efficiency	
Max. Efficiency	99.01%
European Efficiency	98.70%
Protection	
Surge Protection	DC type II / AC type II
Insulation Impedance Detection	Yes
Residual Leakage Current Detection	Yes
PV String Connection Detection	Yes
PV Reverse Polarity Protection	Yes
Anti-islanding Protection	Yes
Output Overcurrent Protection	Yes
DC Switch	Yes
DC&AC Terminal Temperature Protection	Yes
Intelligent Fan Reverse Function	Yes
PID Recovery	Yes
SVG Function	Yes
Optional	AFCI, anti-PID
General Parameters	
Dimensions (W × H × D)	1135 × 919 × 416 mm
Weight	≤142 kg
Protection Degree	IP66
Anti-corrosion Degree	C5 (optional)
Operating Temperature Range	-25~+60°C
Cooling System	Smart air cooling
Topology	Transformerless
Operating Altitude	4000 m (>2000 m derating)
Display	LED indicator, Wi-Fi / APP
Communication	RS485 / PLC
DC Connection Type	DC connector (4~6 mm ²)
AC Connection Type	OT / DT / DTL terminal (≤400 mm ²)
Standard Compliance (More Available Upon Request)	
Certification	IEC 62109, IEC 61000, IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 62920, IEC 63027, EN 50530, EN 50549-1, EN 50549-2, CEA, MEA (385K-G01), PEA (385K-G01)

