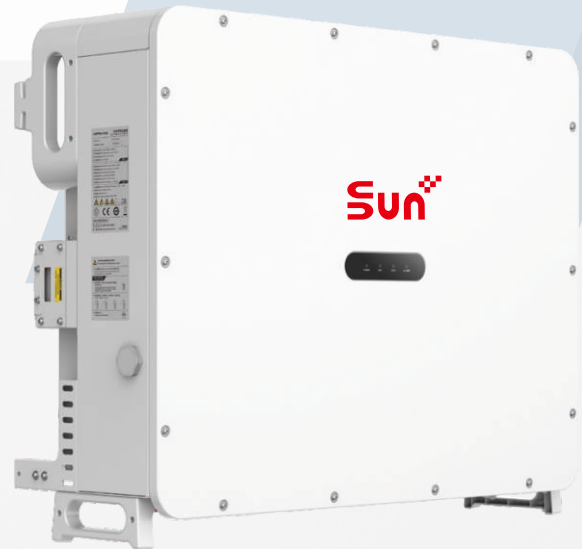




# Smart Highpower GEEK-01

350 / 385

A superior distributed generation  
solution for large-scale power plants



**25** YEAR  
DESIGN LIFE

## Efficiency

- 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

## 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

## 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

## Economy Friendly

- Wi-Fi/PLC communication to reduce wiring costs
- Compatible with Aluminium AC cable up to 400mm<sup>2</sup>
- Supports Dual-AC cable output for better installation
- PID recovery/Anti-PID function, more energy, less maintenance

Model		SSH-350K-G1	SSH-385K-G1
DC Input			
Max. Input Voltage	[V]	1500	
Starting Voltage	[V]	550	
MPPT Voltage Range	[V]	500~1500	
MPPT Range Full Load	[V]	860~1300	
Max. Input Current Per MPPT	[A]	60	
Max. Short-circuit Current	[A]	90	
Number of DC Inputs		8 × 4	
Number of MPP Trackers		8	
AC Output			
Rated Output Power	[kW]	350	385
Max. Output Power	[kW]	350	385
Rated Output Voltage	[V]	800 V (3P + PE)	
Operating Voltage Range	[V]	640~920 V	
Rated Output Current	[A]	252.6	277.9
Max. Output Current	[A]	252.6	277.9
Rated Grid Frequency	[Hz]	50 / 60	
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 Fault 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)	[mm]	1135 × 919 × 416	
Weight	[kg]	≤135	
Protection Degree		IP66	
Anti-corrosion Degree		C5	
Operating Temperature Range	[°C]	-25~+60	
Cooling System		Smart air cooling	
Topology		Transformerless	
Operating Altitude	[m]	4000 (>3000 m derating)	4000 (>2000 m derating)
Display		LED indicator, Wi-Fi / APP	
Communication		RS485 / PLC	
DC Connection Type		MC4	
AC Connection Type		OT / DT terminal (≤400 <sup>2</sup> ) mm	
Certification and approvals(pending)		IEC 62109, IEC 61000, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 62910, IEC 63027, EN 50530, EN 50549-1, EN 50549-2, CEA	
Warranty			
Standard		5 years	
Optional extensions(total warranty cannot exceed 25 years)		+5 / +10 / +15 / +20	

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