

Technical Specifications of Solar String Inverter HIVERTER Si-50K

Model	50000 W
Input (DC)	
Max. Input Power	65000 W
Number of MPPT	3
Number of DC inputs	4/3/3
Max. input voltage	1000V
Min input voltage	250V
MPPT voltage range	250-960V DC
Max. input current/ MPPT	40A/30A/30A
DC Overloading in percentage	130%
Output (AC)	
Rated power	50000 W
Max. AC power	55000 VA
Output AC Overloading %	10%
Active Power Adjustable Range	0-50000W
Rated AC Voltage	400V ± 25%
Grid frequency range	50 Hz ±10%
Phases - Wires	3 Phases – 4 Wires
Max. output current	80A
THDi	<3%
Power factor [cos φ]	0.8lead-0.8lag
Performance	
Max efficiency	98.5%
EU efficiency [@600Vdc]	98.3%
Self-consumption at night	<1W
MPPT efficiency	99%
LVRT Protection	Yes
Protection	
DC reverse polarity protection	Yes
Integrated DC switch	Yes
Safety protection	Yes
SPD	MOV, Type-II SPD (DC), Type-III SPD (AC)
Type-II SPD on AC Side (optional)	Yes
Communication	
Communication mode	RS485, Wifi, GPRS (Optional), SD Card
Operation data storage	25 Years
General data	
Ambient temperature range	-25~+60°C
Topology	Transformer-less
Degree of protection	IP65
Allowable relative humidity range	0-100% (non-condensing)
Max. operating altitude	4000m (> 3000m derating)
Noise	≤60dB
Weight	68Kg
Cooling	Forced Cooling
Display	LCD
Dimension	737*713*297mm
Compliance & Certifications	IEC 62109-1 -2 IEC 61683 IEC 62116 IEC 60068 IEC 61000-6-2 EN 50530 IEC 62910