Three Phase String Inverter(LV)

SUN-60/70/75K-G01P3-EU-AM8-LV

Reliable

- Anti-PID function (Optional)

Intelligent

- String intelligent monitoring (optional)

Efficient

- 8 MPP trackers, Max. efficiency up to 98.7%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Technical Data

Model	SUN-60K-G01P3-EU-AM8-LV	SUN-70K-G01P3-EU-AM8-LV	SUN-75K-G01P3-EU-AM8-LV
PV String Input Data			
Max. PV Input Power (kW)	90	105	112.5
Max. PV Input Voltage (V)	800		
Start-up Voltage (V)	250		
MPPT Voltage Range (V)	200-700		
Rated PV Input Voltage (V)	500		
Max. Operating PV Input Current (A)	40+40+40+40+40+40+40+40		
Max. Input Short Circuit Current (A)	60+60+60+60+60+60+60+60		
No. of MPP Trackers/ No. of Strings MPP Tracker	8/4+4+4+4+4+4+4+4		
AC Output Side			
Rated AC Output Active Power (kW)	60	70	75
Max. AC Output Apparent Power (kVA)	60	70	75
Rated AC Output Current (A)	157.5/150.4	183.8/175.5	196.9/188
Max. AC Output Current (A)	157.5/150.4	183.8/175.5	196.9/188
Rated output voltage	127V/220V, 133V/230V 0.85Un-1.1Un 3L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		
Efficiency			
Max. Efficiency	98.7%		
MPPT Efficiency	>99%		
Equipment Protection			
DC Reverse Polarity Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
Insulation Impedance Detection	Yes		
DC Component Monitoring	Yes		
Arc Fault Circuit Interrupter (AFCI)	Optional		
Anti-islanding Protection	Yes		
Residual Current Detection	Yes		
DC Switch	Yes		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
Interface			
LCD/LED Display	LCD 240 × 160		
Communication Interface	RS485/RS232 /WiFi/LAN		
General Data			
Operating Temperature Range (°C)	-25 to +60℃, >45℃ Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude	4000m		
Noise (dB)	≤55		
Ingress Protection(IP) Rating	IP 65		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	1006×516×325.5 (Excluding Connectors and Brackets)		
Weight (kg)	103		
Warranty	5 Years		
Type of Cooling	Intelligent Air Cooling		
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		