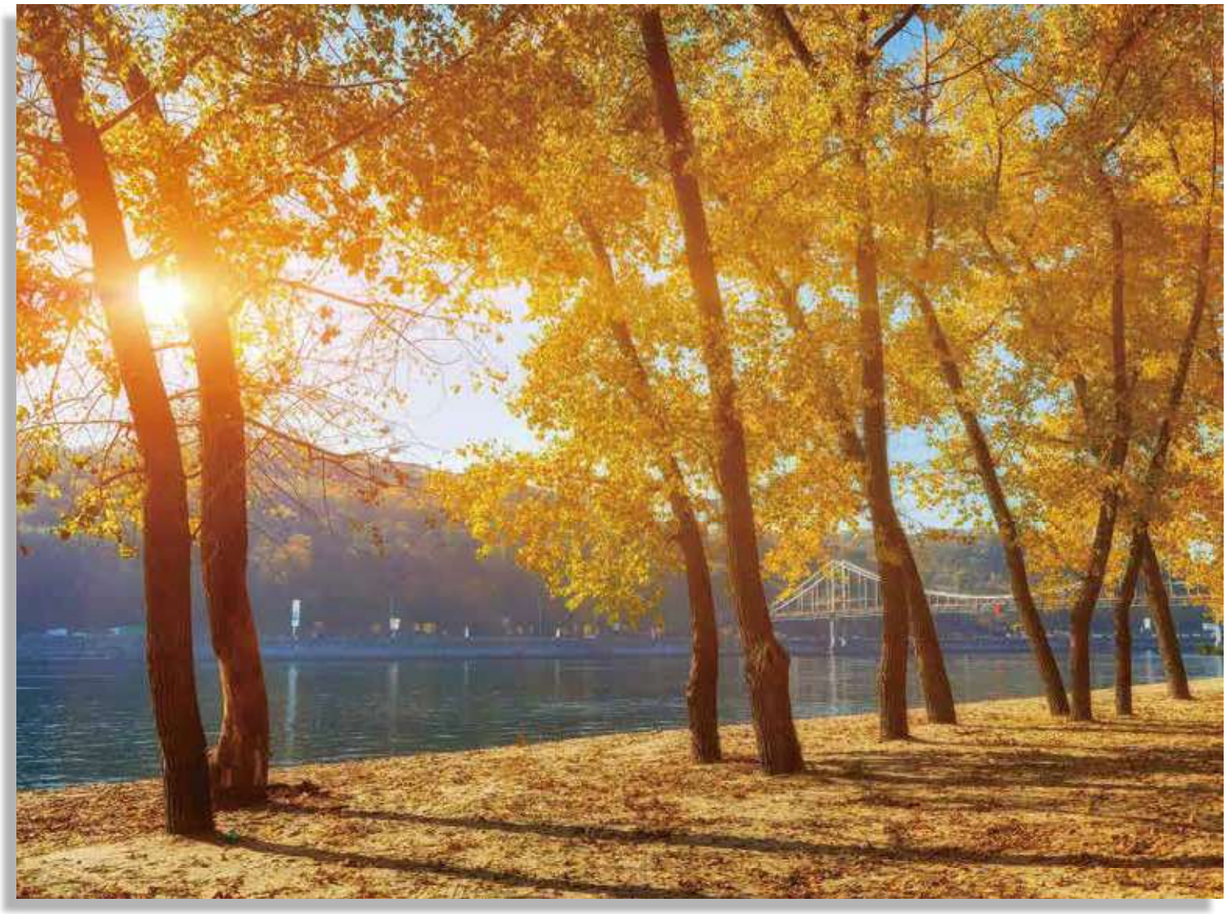
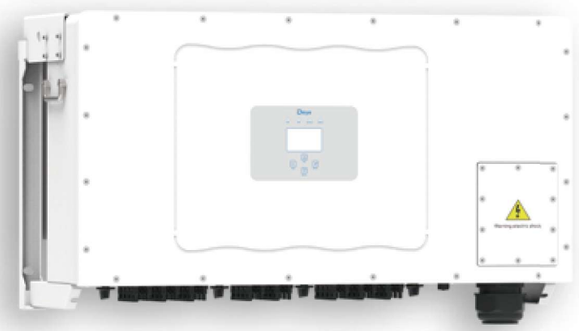
Three Phase String Inverter(LV)

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





- 120V/208V, 127V/220V, 133V/230V and 50/60Hz, Three phase system
- 8 MPP trackers, Max. efficiency up to 98.7%
- Zero export application, VSG application
- String intelligent monitoring (optional)
- Wide output voltage range
- Anti-PID function (Optional)

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 per 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/Range (V)	127V/220V, 133V/230V 0.85UN-1.1UN		
Grid Connection Form	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 Polarity Reverse Connection Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
DC Terminal Insulation Impedance Monitoring	Yes		
DC Component Monitoring	Yes		
Ground Fault Current Monitoring	Yes		
Arc Fault Circuit Interrupter (AFCI)	Optional		
Power Network Monitoring	Yes		
Island Protection Monitoring	Yes		
Earth Fault Detection	Yes		
Overvoltage Load Drop Protection	Yes		
Residual Current (RCD) Detection	Yes		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
Interface			
Communication Interface	RS485/RS232		
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)		
General Data			
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude (m)	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		