

# Three Phase String Inverter

SUN-15K-G05-AU



2 MPPT trackers, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Model		SUN-15K-G05-AU
<b>PV String Input Data</b>		
Max. PV Input Power (kW)		22.5
Max. PV Input Voltage (V)		1000
Start-up Voltage (V)		250
MPPT Voltage Range (V)		200-850
Rated PV Input Voltage (V)		600
Max. Operating PV Input Current (A)		13+26
Max. Input Short Circuit Current (A)		19.5+39
No. of MPP Trackers/ No. of Strings MPP Tracker		2/1+2
<b>AC Output Data</b>		
Rated AC Output Active Power(kW)		15
Max. AC Output Apparent Power(kVA)		15
Rated AC Output current (A)		21.7
Max. AC Output Current(A)		21.7
Rated Output voltage/range (V)	230V/400V 240V/415V	0.85Un-1.1Un
Grid Connection Form		3L/N/PE
Rated Output Grid Frequency/range(Hz)		50Hz/45Hz-55Hz
Power Factor Adjustment Range		0.8 leading to 0.8 lagging
Total Current Harmonic Distortion THDi		<3%
DC Injection Current		<0.5%In
<b>Efficiency</b>		
Max. Efficiency		98.5%
Euro Efficiency		90%
MPPT Efficiency		>99%
<b>Equipment Protection</b>		
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)
<b>Interface</b>		
Communication Interface		RS485/RS232/CAN
Monitor Mode		GPRS/WIFI/Bluetooth/4G/LAN(optional)
<b>General Data</b>		
Operating Temperature Range (°C)		-25 to +65°C, >45°C Derating
Permissible Ambient Humidity		0-100%
Permissible Altitude (m)		4000m
Noise (dB)		≤ 40 dB(A)
Ingress Protection(IP) Rating		IP 65
Over Voltage Category		OVC II(DC), OVC III(AC)
Cabinet Size (mm)		332W×472H×203D (Excluding Connectors and Brackets)
Weight (kg)		15
Warranty		10 Years
Type of Cooling		Natural Cooling
Grid Regulation		AS/NZS 4777.2
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2