

Three Phase String Inverter

SUN-15K-G05



2 MPP trackers, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

Model		SUN-15K-G05
PV String Input Data		
Max. PV Input Power (kW)		19.5
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 MPPT Trackers/ No. of Strings per MPPT Trackers		2/1+2
AC Output Side		
Rated AC Output Active Power (kW)		15
Max. AC Output Apparent Power (kVA)		16.5
Rated AC Output Current (A)		22.7/21.7
Max. AC Output Current (A)		25/23.9
Rated Output Voltage/Range (V)		220/380V, 230/400V 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 Component of Grid		<0.5%In
Efficiency		
Max. Efficiency		98.5%
Euro Efficiency		98.0%
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
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 /WiFi/LAN
General Data		
Operating Temperature Range (°C)		-25 to +60°C, >45°C Derating
Permissible Ambient Humidity		0-100%
Permissible Altitude (m)		4000m
Noise (dB)		≤40 dB(A)
Ingress Protection(IP) Rating		IP 65
Inverter Topology		Non-Isolated
Over Voltage Category		OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)		332×472×203 (Excluding Connectors and Brackets)
Weight (kg)		15
Warranty		5 Years
Type of Cooling		Intelligent Air Cooling
Grid Regulation		IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98, G99, VDE 4105
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2