

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)

Deye

Stock Code: 605117.SH

Model	SUN-15K-G05-AU
PV String Input Data	
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
AC Output Data	
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	<0.5In
Efficiency	
Max. Efficiency	98.5%
Euro Efficiency	98.0%
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
DC Switch	Yes
Residual Current Detection	Yes
Anti-islanding Protection	yes(Active Frequency shift)
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Protection Level	Class I
Interface	
Communication Interface	RS485/RS232 /WiFi/LAN
LCD/LED Display	LCD1602
General Data	
Operating Temperature Range (°C)	-25°C to +65°C
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 (mm)	332W×472H×203D (Excluding Connectors and Brackets)
Weight (kg)	15
Warranty	10 Years
Type of Cooling	Intelligent Air 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