

Three Phase String Inverter

SUN-15K-G05-AU



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-AU
Input Side	
Max. PV Input Power (kW)	22.5
Max. PV Input Voltage (V)	1000
Min Input PV Operating Voltage Range (V)	200-1000
Start-up PV Input Voltage (V)	250
MPPT Operating Range (V)	200~850
Max. PV Input Current (A)	13+26
Max. Short Circuit Current (A)	19.5+39
Number of MPPT / Strings per MPPT	2/1+2
Output Side	
Rated Output Power (kW)	15
Rated Output Power (VA)	15
Max. Active Power (kW)	15
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V
Rated Grid Frequency (Hz)	50 / 60 (Optional)
Operating Phase	Three phase
Rated AC Grid Output Current (A)	21.7
Max. AC Output Current (A)	21.7
Output Power Factor	0.8 leading to 0.8 lagging
Grid Current THD	<3%
DC Injection Current (mA)	<0.5%
Grid Frequency Range	47~52 or 57~62 (Optional)
Efficiency	
Max. Efficiency	98.5%
Euro Efficiency	97.5%
MPPT Efficiency	>99%
Protection	
DC Reverse-Polarity Protection	Yes
AC Short Circuit Protection	Yes
AC Output Overcurrent Protection	Yes
Output Overvoltage Protection	Yes
Insulation Resistance Protection	Yes
Ground Fault Monitoring	Yes
Anti-islanding Protection	Active Frequency Shift
Temperature Protection	Yes
Integrated DC Switch	Yes
Remote software upload	Yes
Remote change of operating parameters	Yes
Protective Class	Class I
Surge protection	DC Type II / AC Type II
Overvoltage Category	DC Type II / AC Type III
General Data	
Size (mm)	332W×472H×203D
Weight (kg)	15
Topology	Transformerless
Internal Consumption	<1W (Night)
Running Temperature	-25~65°C
Ingress Protection	IP65
Noise Emission (Typical)	≤ 40 dB
Cooling Concept	Natural cooling
Max. Operating Altitude Without Derating	4000m
Warranty	10 years
Grid Connection Standard	AS/NZS 4777.2
Operating Surroundings Humidity	0-100%
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
Features	
DC Connection	VP-D4B
AC Connection	IP65 rated plug
Display	LCD1602
Interface	RS485/RS232/Wifi/LAN