

Three Phase String Inverter

SUN-18/20/22/23/25K-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-18K-G05-AU	SUN-20K-G05-AU	SUN-22K-G05-AU	SUN-23K-G05-AU	SUN-25K-G05-AU
PV String Input Data					
Max. PV Input Power (kW)	27	30	33	34.5	37.5
Max. PV Input Voltage (V)	1100				
Start-up Voltage (V)	250				
MPPT Voltage Range (V)	200-1000				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	26+26				
Max. Input Short Circuit Current (A)	39+39				
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2				
AC Output Data					
Rated AC Output Active Power(kW)	18	20	22	23	25
Max. AC Output Apparent Power(kVA)	18	20	22	23	25
Rated AC Output current (A)	26.1	29	31.9	33.4	36.2
Max. AC Output Current(A)	26.1	29	31.9	33.4	36.2
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				
Efficiency					
Max. Efficiency	98.5%				
Euro Efficiency	98%				
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				
Monitor Mode	LCD1602				
General Data					
Operating Temperature Range (°C)	-25°C to +65°C				
Permissible Ambient Humidity	0-100%				
Permissible Altitude (m)	4000m				
Noise (dB)	≤ 50 dB				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (mm)	362W×527H×220D (Excluding Connectors and Brackets)				
Weight (kg)	20				
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				