

# Three Phase String Inverter

SUN- 18 / 20 / 25 K-G05-AU



2 MPPT trackers, Max. efficiency up to 98.6%



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-25K-G05-AU
<b>Input Side</b>			
Max. PV Input Power (kW)	27	30	37.5
Max. DC Input Voltage (V)	1000		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200-850		
Max. DC Input Current (A)	39+39		
Max. Short Circuit Current (A)	26+26		
Number of MPPT / Strings per MPPT	2/2+2		
<b>Output Side</b>			
Rated Output Power (kW)	18	20	25
Max. Active Power (kW)	18	20	25
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)	26.1	29	36.2
Max. AC Output Current (A)	26.1	29	36.2
Output Power Factor	0.8 leading to 0.8 lagging		
Total Harmonics Current Distortion (THDi)	<3%		
DC Injection Current (mA)	<0.5%		
Grid Frequency Range	45-55 or 55-65 (Optional)		
<b>Efficiency</b>			
Max. Efficiency	98.6%		
Euro Efficiency	97.8%		
MPPT Efficiency	>99%		
<b>Protection</b>			
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	Yes		
Temperature Protection	Yes		
Integrated DC Switch	Yes		
Remote software upload	Yes		
Remote change of operating parameters	Yes		
Surge protection	DC Type II / AC Type II		
<b>General Data</b>			
Size (mm)	362W×527H×220D (Excluding connectors and brackets)		
Weight (kg)	20		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25 to +65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	≤ 40dB		
Cooling Concept	Smart cooling		
Max. Operating Altitude Without Derating	4000m		
Warranty	5 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		
<b>Features</b>			
DC Connection	VP-D4B		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		