

Three Phase String Inverter

SUN-4/5/6/7/8/10/12/15K-G05-P



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-4K-G05-P	SUN-5K-G05-P	SUN-6K-G05-P	SUN-7K-G05-P	SUN-8K-G05-P	SUN-10K-G05-P	SUN-12K-G05-P	SUN-15K-G05-P
Input Side								
Max. DC Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13	15.6	19.5
Max. DC Input Voltage (V)	1100							
Start-up DC Input Voltage (V)	140							
MPPT Operating Range (V)	120-1000							
Max. DC Input Current (A)	20+20							20+26
Max. Short Circuit Current (A)	30+30							30+39
No. of MPP Trackers	2							
No. of Strings per MPP Tracker	1+1							1+2
Output Side								
Rated Output Power (kW)	4	5	6	7	8	10	12	15
Max. Active Power (kW)	4.4	5.5	6.6	7.7	8.8	11	13.2	16.5
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V							
Rated Grid Frequency (Hz)	50 / 60 (Optional)							
Operating Phase	Three Phase							
Rated AC Grid Output Current (A)	6.1/5.8	7.6/7.3	9.1/8.7	10.7/10.2	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8
Max. AC Output Current (A)	6.7/6.4	8.4/8	10/9.6	11.7/11.2	13.4/12.8	16.7/16	20/19.2	25/24
Output Power Factor	0.8 leading to 0.8 lagging							
Grid Current THD	<3%							
DC Injection Current (mA)	<0.5%							
Grid Frequency Range	45~55 or 55~65 (Optional)							
Efficiency								
Max. Efficiency	98.1%	98.2%	98.3%			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	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							
General Data								
Cabinet Size (WxHxD mm)	283×463×178 (Excluding connectors and brackets)							
Weight (kg)	11							
Topology	Transformerless							
Internal Consumption	<1W (Night)							
Running Temperature	-25-60°C, >45°C derating							
Ingress Protection	IP65							
Noise Emission (Typical)	<45 dB							
Cooling Concept	Free Cooling						Smart Cooling	
Permissible Altitude (m)	4000							
Warranty	5 Years							
Grid Connection Standard	IEC 61727, IEC 62116, EN 50549							
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								
Display	LCD1602							
Interface	RS485/RS232/Wifi/LAN							