

Three Phase String Inverter

SUN-40/45/50K-G04



Max. 4 MPPT trackers, Max. efficiency up to 98.7%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

Model	SUN-40K-G04		SUN-45K-G04		SUN-50K-G04	
Input Side						
Max. DC Input Power (kW)	52		58.5		65	
Max. DC Input Voltage (V)	1100					
Start-up DC Input Voltage (V)	250					
MPPT Operating Range (V)	200-1000					
Max. DC Input Current (A)	40+40+40			40+40+40+40		
Max. Short Circuit Current (A)	60+60+60			60+60+60+60		
No.of MPP Trackers	3			4		
No.of Strings per MPP Tracker	3+3+3			3+3+3+3		
Output Side						
Rated Output Power (kW)	40		45		50	
Max. Active Power (kW)	44		49.5		55	
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three Phase					
Rated AC Grid Output Current (A)	60.6/58		68.2/65.2		75.8/72.5	
Max. AC Output Current (A)	66.7/63.8		75/71.7		83.3/79.7	
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)					
Efficiency						
Max. Efficiency	98.7%					
Euro Efficiency	98%					
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)	434×570×243 (Excluding Connectors and Brackets)					
Weight (kg)	37.1					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25-60°C, >45°C Derating					
Ingress Protection	IP65					
Noise Emission (Typical)	≤50 dB					
Cooling Concept	Smart Cooling					
Permissible Altitude (m)	4000					
Warranty	5 Years					
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105					
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					