Technical Data

Model	SUN-3K-OG03 LP1-EU-AM1	SUN-3.6K-OG03 LP1-EU-AM1	SUN-5K-OG03 LP1-EU-AM2	SUN-6.6K-OG03 LP1-EU-AM2	SUN-8.8K-OG03 LP1-EU-AM2
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging/Discharging Current (A)	70	90	120	140	190
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV access power (W)	6000	7200	10000	13200	17600
Max. PV Input Power (W)	4800	5760	8000	10560	14080
Max. PV Input Voltage (V)	500				
Start-up Voltage (V)	125				
MPPT Voltage Range (V)	150-425				
Rated PV Input Voltage (V)	370				
Max. Operating PV Input Current (A)	18		18+18		36+18
Max. Input Short-Circuit Current (A)	27		27+27		54+27
No.of MPP Trackers/No.of Strings MPP Tracker	1/1		2/1+1		2/1+1
AC Output Data					
Rated AC Output Power (VA/W)	3000	3600	5000	6600	8800
Max. AC Output Power (VA/W)	3000	3600	5000	6600	8800
Max. AC Output Current (A)	13.1	15.7	21.8	28.7	38.3
Rated AC Output Current (A)	13.1	15.7	21.8	28.7	38.3
Peak Power (W)	2 times of rated power, 10s				
Rated output voltage	230 L+N+PE				
Rated Output Frequency	50Hz/60Hz				
Output Voltage Waveform	Pure Sine Wave				
Total Current Harmonic Distortion THDi	<3%				
AC Input Data(Grid and Generator)					
Max. Input Power to Battery (W)	3000	3600	5000	6600	8800
Rated Input Voltage	230				
Rated Input Frequency	50Hz/60Hz				
Grid Input Current (A)	35				50
Generator Input Current (A)	35				50
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Insulation Impedance Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	Wi-Fi&BT,RS485,CAN				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise (dB)	<46				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated (solar), Isolated (battery)				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	323×424×176 (Excluding Connectors and Brackets)				
Weight (kg)	8.6				
Type of Cooling	Intelligent Air Cooling				
Warranty	Standard 5 years, extendable warranty				
Safety / EMC Standard	IEC62109-1/-2, EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4				

Preliminary

Deye
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