

Hybrid Inverter

SUN-8K-5G01LP1 - EU



Colorful touch LCD, IP65 protection degree



6 time periods for battery charging/discharging



Max. charging/discharging current of 190A



Frequency droop control, Max. 16 pcs parallel



DC couple and AC couple to retrofit existing solar system



Support storing energy from diesel generator

Deye

Clean Power For You

Model	SUN-8K-SG01LP1-EU
Battery Input Data	
Battery Type	Lead-acidor Lithium-ion
Battery Voltage Range(V)	40~60V
Max.Charging Current (A)	190A
Max.Discharging Current (A)	190A
Charging Curve	3 Stages/ Equalization
External Temperature Sensor	Yes
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max.DC Input Power (W)	10400W
PVInput Voltage (V)	370V (100V~500V)
MPPT Range (V)	125V-425V
Start-up Voltage (V)	150V
PVInput Current (A)	22A+22A
No.of MPPTTrackers	2
No.of Strings Per MPPT Tracker	2+2
AC Output Data	
Rated AC Output and UPS Power (W)	8000W
Max. ACOutput Power (W)	8800W
PeakPower (off grid)	2 times of rated power, 10 S
ACOutput Rated Current (A)	35A
Max. ACCurrent (A)	38.5A
Max. Continuous AC Pass through (A)	50A
Output Frequency and Voltage	50 / 60Hz; 230Vac (single phase)
Grid Type	Single Phase
Current Harmonic Distortion	THD<3% (Linear load<1.5%)
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%
Protection	
PVInput Lightning Protection	Integrated
Anti-islanding Protection	Integrated
PVString Input ReversePolarity Protection	Integrated
Insulation ResistorDetection	Integrated
ResidualCurrent Monitoring Unit	Integrated
Output OverCurrent Protection	Integrated
Output ShortedProtection	Integrated
Output Over Voltage Protection	Integrated
Surgeprotection	DC Type II / AC Type II
Certifications and Standards	
Grid Regulation	VDE0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727
Safety Regulation	IEC62109-1, IEC62109-2
EMC	EN61000-6-1, EN61000-6-3, FCC15 class B
General Data	
Operating Temperature Range(°C)	-25~60°C, >45°C Derating
Cooling	Smart cooling
Noise (dB)	<30 dB
Communication with BMS	RS485; CAN
Weight (kg)	32
Size (mm)	420W×670H×233D
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years

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