

Three Phase Hybrid Inverter

SUN-8/10/12K-SG05LP3-EU-SM2



100

100% unbalanced output, each phase; Max. output up to 50% rated power



AC couple to retrofit existing solar system

10

Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel

240

Max. charging/discharging current of 240A

48

48V low voltage battery, transformer isolation design

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

Model

Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	
Max. Discharging Current (A)	
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	1

PV String Input Data	
	12000
	800
Start-up Voltage (V)	160
	200-650
	550
	20+20
	30+30
No. of MPP Trackers/ No. of Strings per MPP Tracker	2/1+1

AC Input/Output Data	
Rated AC Input/Output Active Power (W)	
Max. AC Input/Output Apparent Power (VA)	
Rated AC Input/Output Current (A)	
Max. AC Input/Output Current (A)	
Max. Three-phase Unbalanced Output Current (A)	
Max. Continuous AC Passthrough (grid to load) (A)	45
Peak Power (off-grid) (W)	2 times of rated power, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging

Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5% I _n

Efficiency	
Max. Efficiency	97.6%
Euro Efficiency	97.0%
MPPT Efficiency	>99%

Equipment Protection	
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level
Surge Protection Level	TYPE II(DC), TYPE II(AC)

Operating Temperature Range (

Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2