

DEYE 8 KW Hibrit Monofaze LV (48V)

Technical Data

Model	SUN-8K-SG01LP1-EU
Battery Input Data	
Battery Type	Lead-acid or Li-Ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	190
Max. Discharging Current (A)	190
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max. DC Input Power (W)	10400
Rated PV Input Voltage (V)	370 (125~500)
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Full Load DC Voltage Range (V)	200-425
PV Input Current (A)	26+26
Max. PV I _{sc} (A)	34+34
No. of MPP Trackers	2
No. of Strings per MPP Tracker	2
AC Output Data	
Rated AC Output and UPS Power (W)	8000
Max. AC Output Power (W)	8800
AC Output Rated Current (A)	36.4/34.8
Max. AC Current (A)	40/38.3
Max. Continuous AC Passthrough (A)	50
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac (single phase)
Grid Type	Single Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC current injection	<0.5% I _n
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99.90%
Protection	
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection
Output Over Voltage Protection	DC Type II/AC Type III
Certifications and Standards	
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Operating Temperature Range (°C)	-40~60°C, >45°C derating
Cooling	Natural cooling
Noise (dB)	<30 dB
Communication with BMS	RS485; CAN
Weight (kg)	24
Size (mm)	330W x 580H x 232D
Protection Degree	IP65
Installation Style	Wall-mounted

DEYE Lityum Akü 51,2V 120Ah (LiFePo4) 6.1kWh

Technical Data

Model		RW-M6.1
Main Parameter		
Battery Chemistry		LiFePO4
Capacity (Ah)		120
Scalability (max. in 1 battery group)		Max.32 in Parallel(195kWh)
Nominal Voltage (V)		51.2
Operating Voltage(V)		43.2~57.6
Energy (kWh)		6.1
Usable Energy (kWh) ^[1]		5.5
Charge/Discharge Current (A)	Recommend ^[2]	60
	Max ^[2]	100
	Peak (2 minutes,25°C)	150
Other Parameter		
Recommend Depth of Discharge		90%
Dimension (W/H/D,mm)		485x790x160
Weight Approximate (kg)		55
Master LED Indicator		5LED(SOC:20%~100%), 3LED (working, alarming, protecting)
IP Rating of Enclosure		IP65
Working Temperature (°C)		Charge:0 ~ 55/Discharge:-20 ~ 55
Storage Temperature		0°C ~ 35°C
Humidity		5%~95%
Altitude		≤2000m
Cycle Life		25°C±2°C, 0.5C/0.5C,70%EOL≥6000
Installation		Wall-Mounted, Floor-Mounted
Communication Port		CAN2.0, RS485
Life Cycle Power During Warranty Period ^[3]		20MWh@70%EOL
Certification		UL1973, FCC, IEC62619, CE, UN38.3

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] The warranty is due whichever reached first of warranty period or life cycle power.

Introduction

This series lithium iron phosphate battery is one of new energystorage products developed and produced by Deye , it can be used to support reliable power forvarious types of equipment and systems.

This series is especially suitable for application scene of high power,limited installation space, restricted load- bearing and long cycle life.

This series has built in BMS battery management system, which can manage and monitor cells information including voltage, current and temperature. What's more, BMS can balance cells charging and discharging to extend cycle life.

Multiple batteries can connect in parallel to expand capacity and power in parallel for larger capacity and longer power supporting duration requirements.