



Inverter ibrido trifase

SUN- 5 / 6 / 8 / 10 / 12 K-SG04LP3-EU



- 100** Uscita sbilanciata al 100%, ogni fase; Massimo uscita fino al 50% della potenza nominale
-  Coppia DC e coppia AC per retrofit esistenti sistema solare
- 10** Massimo 10 pezzi paralleli per on-grid e off-grid operazione; Supporta più batterie in parallelo
- 240** Massimo corrente di carica/scarica di 240 A
- 48** Batteria a bassa tensione da 48 V, design di isolamento del trasformatore
- 6** 6 periodi di tempo per la carica/scarica della batteria
-  Supporta l'accumulo di energia dal generatore diesel

Deye

Stock Code: 605117.SH

Modello	SUN-5K -SG04LP3-EU	SUN-6K -SG04LP3-EU	SUN-8K -SG04LP3-EU	SUN-10K -SG04LP3-EU	SUN-12K -SG04LP3-EU
Dati di input della batteria					
Tipo di batteria	Piombo-acido o Li-Ion				
Intervallo di tensione della batteria (V)	40~60				
Massimo Corrente di carica (A)	120	150	190	210	240
Massimo Corrente di scarica (A)	120	150	190	210	240
Sensore di temperatura esterno	Yes				
Curva di carica	3 Fasi / Equalizzazione				
Strategia di ricarica per la batteria agli ioni di litio	Autoadattamento al BMS				
Dati di ingresso della stringa FV					
Massimo Potenza in ingresso CC (W)	6500	7800	10400	13000	15600
Tensione nominale di ingresso FV (V)	550 (160~800)				
Tensione di avviamento (V)	160				
Intervallo di tensione MPPT (V)	200-650				
Intervallo di tensione CC a pieno carico (V)	350-650				
Corrente di ingresso FV (A)	13+13			26+13	
Massimo PV I _{SC} (A)	17+17			34+17	
Massimo PV I	2				
No.di stringhe per MPP Tracker	1			2	
Dati di uscita CA					
Uscita CA nominale e potenza UPS (W)	5000	6000	8000	10000	12000
Massimo Potenza in uscita CA (W)	5500	6600	8800	11000	13200
Corrente nominale uscita CA (A)	7.6/7.2	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4
Massimo Corrente CA (A)	11.4/10.9	13.6/13	18.2/17.4	22.7/21.7	27.3/26.1
Massimo Passaggio AC continuo (A)	45				
Potenza di picco (fuori rete)	2tempo di potenza nominale, 10 S				
Fattore di potenza	0.8 portando a 0.8 in ritardo				
Frequenza e tensione di uscita	50/60Hz; 3L/N/PE 220/380, 230/400Vac				
Tipo di griglia	Trifase				
Distorsione armonica totale (THD)	< 3% (Potenza nominale)				
Alimentazione continua	<0.5% In				
Efficienza					
Massimo Efficienza	97.60%				
Efficienza Euro	97.00%				
Efficienza MPPT	99.90%				
Protezione					
Integrato	Protezione da fulmini ingresso fotovoltaico, protezione anti-isola, protezione da inversione polarità ingresso stringa fotovoltaica, Rilevamento della resistenza di isolamento, unità di monitoraggio della corrente residua, protezione da sovracorrente in uscita, Protezione da cortocircuito dell'uscita, protezione contro le sovratensioni				
Protezione da sovratensione in uscita	Tipo II CC/Tipo III CA				
Certificazioni e standard					
Regolamento di rete	VDE4105 IEC61727/62116 VDE0126 AS4777.2 CEI 0 21 EN50549-1 G98 G99 C10-11 UNE217002 NBR16149/NBR16150				
Sicurezza EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
Dati generali					
Intervallo di temperatura di esercizio (°C)	-40~60°C, >45°C declassamento				
Raffreddamento	Raffreddamento intelligente				
Rumore (dB)	<45 dB				
Comunicazione con BMS	RS485; CAN				
Peso (kg)	33.6				
Dimensioni (mm)	422 L x 699,3 A x 279 P				
Grado di protezione	IP65				
Stile di installazione	Montaggio a parete				
Garanzia	5 anni				

Hi-MO 6

Explorer

LR5-54HTH 415~435M

- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- High-quality module guarantees long-term reliability



15-year Warranty for
Materials and Processing



25-year Warranty for Extra
Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval

LONGI



22.3%
MAX MODULE
EFFICIENCY

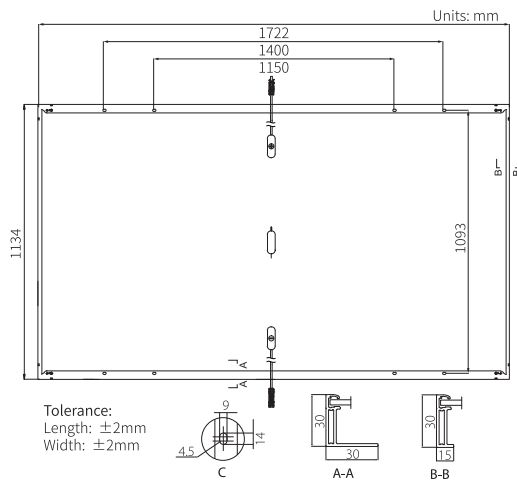
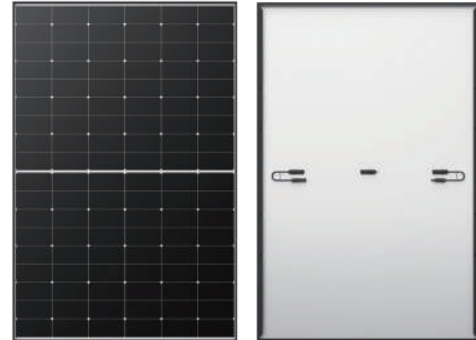
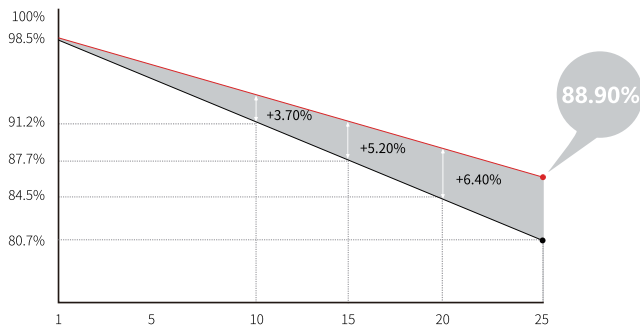
0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

Additional Value

25-Year Power Warranty



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm ² , ±1200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	20.8kg
Dimension	1722×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 936pcs per 40' HC

Electrical Characteristics

STC : AM1.5 1000W/m² 25°C NOCT : AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax: ±3%

Module Type	LR5-54HTH-415M		LR5-54HTH-420M		LR5-54HTH-425M		LR5-54HTH-430M		LR5-54HTH-435M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	415	310	420	314	425	318	430	321	435	325
Open Circuit Voltage (Voc/V)	38.53	36.18	38.73	36.36	38.93	36.55	39.13	36.74	39.33	36.93
Short Circuit Current (Isc/A)	13.92	11.24	14.00	11.31	14.07	11.36	14.15	11.43	14.22	11.49
Voltage at Maximum Power (Vmp/V)	32.24	29.42	32.44	29.60	32.64	29.78	32.84	29.97	33.04	30.15
Current at Maximum Power (Imp/A)	12.88	10.54	12.95	10.60	13.03	10.67	13.10	10.72	13.17	10.78
Module Efficiency(%)	21.3		21.5		21.8		22.0		22.3	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.290%/°C

Introduction

The spring series lithium iron phosphate battery is one of new energy storage products developed and produced by Deye, it can be used to support reliable power for various 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 for larger capacity and longer power supporting duration requirements.



Features



Convenient: The batteries can be flexibly disassembled and assembled to meet more personalized needs, high energy density, high efficiency.



Eco-friendly: The whole module is non-toxic, non-polluting and environmentally friendly.



Safe and reliable: Cathode material is made from LiFePO₄ with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.



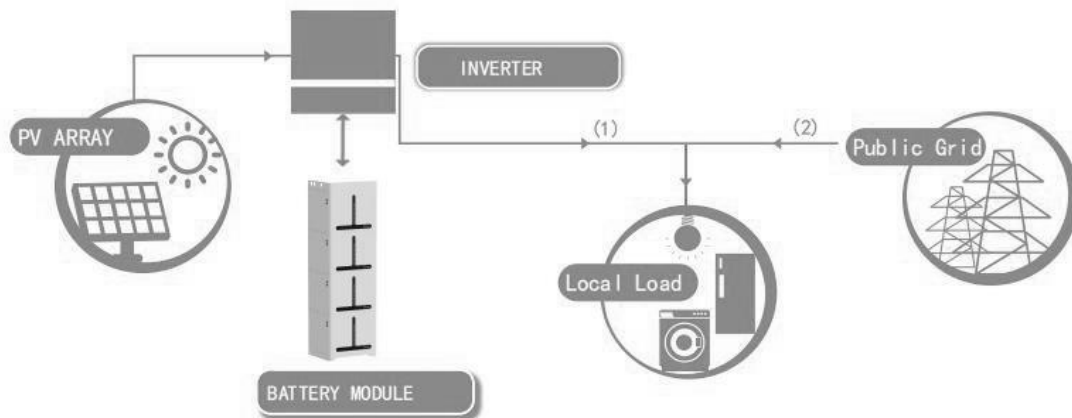
Intelligent BMS: It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.



Flexible configuration: Multiple battery modules can be in parallel for expanding capacity and power, support USB upgrade and remote firmware upgrade.



Wide temperature: Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.



The picture is only an effect picture, please refer to the actual product the final interpretation right belongs to Deye ESS.

Main Parameter		SUNB-5.0-G01-48-PC			
Battery Chemistry		LiFePO4			
Battery Module Energy (kWh)		4.91			
Battery Module Voltage (V)		51.2			
Battery Module Capacity (Ah)		96			
Scalability (Max. in 1 battery group)		1	2	3	4
Nominal Voltage (V)		51.2			
Operating Voltage(V)		43.2~57.6			
Energy (kWh)		4.91	9.82	14.73	19.64
Usable Energy (kWh) ^[1]		4.42	8.84	13.26	17.68
Charge/Discharge Current (A)	Recommend ^[2]	48	96	192	192
	Max. ^[2]	96	192	250	250
	Peak(2mins,25°C)	150	300	300	300
Other Parameter					
Recommend Depth of Discharge		90%			
Dimension (W/H/D,mm)		430*440*339	430*760*339	430*1080*339	430*1400*339
Weight Approximate (kg)		50.7	98.7	146.7	194.7
Master LED Indicator		5LED(SOC:20%~SOC100%)			
		3LED (working, alarming, protecting)			
IP Rating of Enclosure		IP65			
Altitude		≤2000m			
Working Temperature		Charge:0°C~55°C Discharge:-20°C~55°C			
Storage Temperature		0°C ~ 35°C			
Humidity		5%~95%			
Cycle Life(@25±2°C, 1C/1C,80%EOL)		≥6000			
Installation		Floor Mounted			
Communication Port		CAN2.0, RS485			
Warranty Period ^[3]		10 years			
Life Cycle Power During Warranty Period ^[3]		21MWh@80%EOL			
Certification		IEC62619, IEC61000, 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.