

# DL5.0C

DL5.0C is designed for residential and small commercial applications, with up to 50 units in parallel and an energy range from 5.12 kWh to 256 kWh. It supports 1C discharge rate. With high cycle times and a long lifespan, it ensures worry-free electricity consumption.



### Flexible Expansion

Up to 50 units in parallel, 5.12kWh--256kWh capacity



### 1C Discharge

Simultaneously supplying power to multiple loads, no need to worry about power outages



### Automatic Self-heating

-20°C to 55°C operating temperature (optional)



### Easy Installation

Support wall-mounted, floor-mounted, stacked and rack-mounted installations, high space utilization



### Long-term Reliability

LFP cells, 6000+ cycles, 10 years warranty



### All-round Safety

Short-circuit lockout, surge-resistant, safe and reliable

Model	DL5.0C
Battery Type	LiFePO <sub>4</sub>
Nominal Battery Energy	5.12 kWh
Nomina Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8~57.6V
Recomended Charge & Discharge C Rate	0.5C
Maximum Discharge Crate	1C
Recommended Charge/Discharge Current	50A
Max. Charge/Discharge Current	Charge 75A Discharge 100A
Peak Discharge Current	110A(15s)
Depth of Discharge (DOD)	90%
Net Weight	54kg
Dimension[W/D/H](mm)	558/545/150
Charging Temp. Range	0~55°C/-20~55°C (with heating function)
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/RS232
Cycle Life *	≥6000 Cycles
Protection Level	IP20
WIFI Module	Optional
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/CEI-021/GOST-R
Compatible Inverterst	SMA/Schneider/Victron energy/Ingeteam/Solis/GoodWe/Growatt/Soplanet/Luxpower/DEYE etc.

\* Test conditions: 0.2C Charging & Discharging. @25°C, 90% DOD



# LONGI

## LR7-54HVH 475~505M

- Specificamente progettato per applicazioni di generazione distribuita
- Efficienza al vertice, fino al 24.5 %
- Gestione superiore delle ombre tramite il sistema soft breakdown
- Affidabilità superiore con wafer TaiRay N-Type e celle back contact HPBC 2.0
- Testato rispetto alla grandine a 45 mm

25

25 anni di garanzia prodotto\*

30

30 anni di garanzia lineare potenza

### Certificazione completa di sistema e prodotto

IEC 61215, IEC 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



**24.5%**  
EFFICIENZA  
MODULO

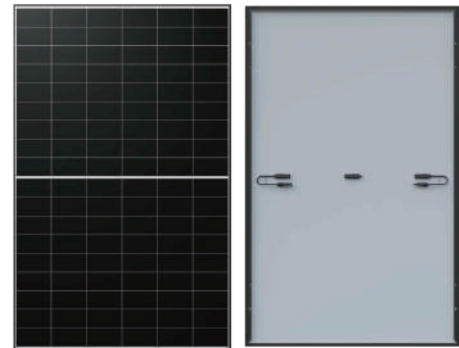
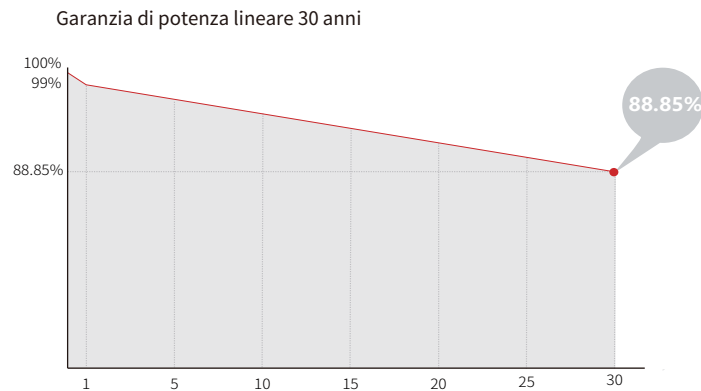
**0~3%**  
TOLLERANZA  
POSITIVE

**<1%**  
DEGRADAZIONE  
PRIMO ANNO

**0.35%**  
GARANZIA  
LINEARE

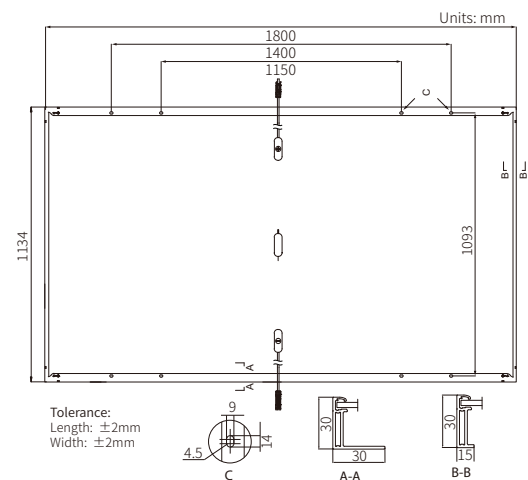
**BC-CELL**  
TEMPERATURA OPERATIVA  
CONTENUTA

Valore aggiunto



Parametri Meccanici

Cella	108 (6×18)Back contact N-Type
Junction Box	IP68
Cavo output	4mm <sup>2</sup> , +400, -200mm/±1200mm, lunghezza customizzabile
Connettori	Stäubli MC4 originali/PV-LR5 su richiesta
Vetro	3.2 mm antiriflesso temprato
Frame	alluminio anodizzato silver (ordinabile anche nero)
Peso	21.6kg
Dimension	1800×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 864pcs per 40' HC



Caratteristiche elettriche

STC : AM1.5 1000W/m<sup>2</sup> 25°C NOCT : AM1.5 800W/m<sup>2</sup> 20°C 1m/s Test uncertainty for Pmax: ±3%

Tipo modulo	LR7-54HVH-480M		LR7-54HVH-485M		LR7-54HVH-490M		LR7-54HVH-495M		LR7-54HVH-500M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
condizioni di test										
Potenza di picco (Pmax/W)	480	365	485	369	490	373	495	377	500	381
Voltaggio circuito aperto (Voc/V)	40.29	38.29	40.40	38.39	40.52	38.51	40.64	38.62	40.75	38.72
Corrente circuito chiuso (Isc/A)	15.13	12.16	15.23	12.24	15.33	12.32	15.43	12.40	15.53	12.48
Voltaggio al MPP (Vmp/V)	33.28	31.63	33.40	31.74	33.51	31.85	33.62	31.95	33.73	32.06
Corrente al MPP (Imp/A)	14.43	11.57	14.53	11.65	14.63	11.73	14.73	11.81	14.83	11.89
Efficienza modulo (%)	23.5		23.8		24.0		24.3		24.5	

Parametri operativi

Temperatura operativa	-40°C ~ +85°C
Tolleranza positiva potenza	0 ~ 3%
Massimo voltaggio di sistema	DC1500V (IEC)
Rating fusibili in serie	25A
NOCT	45±2°C
Classe di isolamento	Class II
Rating internazionale al fuoco	IEC Class C
Rating UNI 9177 al fuoco	Classe 1

Carico meccanico

Massimo carico frontale static	5400Pa
Massimo carico statico sul retro	2400Pa
Resistenza grandine certificata	25mm con velocità 23m/s
Resistenza grandine test terze parti	45mm con velocità 30.7m/s

Coefficienti termici (STC)

Coefficiente termico Isc	+0.050%/°C
Coefficiente termico Voc	-0.200%/°C
Coefficiente termico Pmax	-0.260%/°C

# ECO HYBRID

## Single-Phase

# SNA 3-6K

- Off-grid seamless switching
- 2 MPPTs, Max. PV input: 9.6kW
- Wide PV input voltage range: 100~500V
- Supports up to 16pcs in parallel
- Max. charging and discharging current 140A
- Dedicated Port: Supports generator, AC coupling or smart load management for enhanced stability
- 24/7 real-time monitoring via LUX app with worry-free updates



# Specifications

Input (PV DC)	SNA 3000W	SNA 4000W	SNA 5000W	SNA 6000W
Max. PV input power(W)	6000 (3000/3000)	8000 (4000/4000)	8000 (4000/4000)	9600 (4800/4800)
Rated PV input voltage(V)	320			
Number of independent MPPT inputs	2/(1:1)			
PV input voltage range(V)	100~500			
MPPT voltage range(V)	120~385			
Start-up voltage(V)	100			
Max. PV input current per MPPT(A)	17/17			
Max. PV short-circuit current input per MPPT(A)	25/25			
<b>Battery</b>				
Compatible battery type	Lithium-ion/Lead-Acid			
Rated battery voltage(V)	48			
Battery voltage range(V)	38.4~60			
Max. charge/discharge current(A)	70/70	90/90	110/110	140/140
Max. charge/discharge power(W)	3000	4000	5000	6000
Recommend capacity of battery per inverter	>100AH	>200AH	>200AH	>200AH
Force wake up battery from PV function	YES			
Force wake up battery from Grid function	YES			
<b>Grid</b>				
Rated AC voltage(V)	230			
Rated AC frequency(Hz)	50/60			
Rated AC output current(A)	13.5	17.5	22	26.5
Rated AC output power(W)	3000	4000	5000	6000
Max. AC input power(W)	8000			
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
THDI	<5%			
Max. continuous AC passthrough current(A)	35			40
<b>UPS</b>				
Rated output power(W)	3000	4000	5000	6000
Rated output voltage(V)	230			
Rated output current(A)	13.5	17.5	22	26.5
Rated output frequency(Hz)	50/60			
Surge power, duration	2Pn, <5s			
Switching time	<10ms@Single/<20ms@Parallel			
Wave form	Sine wave			
THDV	3%			
<b>Efficiency</b>				
Max. MPPT efficiency	99.9%			
Max. efficiency	93.0%			
Max. charge efficiency	93.0%			
Max. discharge efficiency	93.0%			
<b>Protection</b>				
Over current/voltage protection	YES			
AC Short-circuit current protection	YES			
Grid monitoring	YES			
AC Surge protection	Type III			
Battery reverse polarity protection	YES			
<b>General</b>				
Dimensions(W*H*D)	330*505*135mm/13*19.9*5.3inch			
Weight	14.5kg/32lbs			
Ingress protection rating	IP20			
Operating environment temperature range(°C)	0~50			
Storage temperature range(°C)	-15~60			
Relative humidity	5%~95%			
Display & Communication interface	LCD+LED, RS485/Wi-Fi/CAN			
Warranty	2 years			
Cooling method	Smart Cooling			
Topology	Transformer-less			
Altitude	<2000m			
Noise emission(typical)	<50dB			
<b>Standards &amp; Certification</b>				
IEC 62109-1, IEC 61000, IEC62040/EN62040, IEC62109, NRS 097-2-1				