

Hi-MO 6

Explorer

LR5-54HTH 415~435M

- Adatto a progetti distribuiti
- Stile semplice, moderno, unico
- Miglioramento delle prestazioni di generazione di energia durante l'intero ciclo di vita
- Alta qualità per garantire l'affidabilità dei moduli a lungo termine

15

15 anni di garanzia di prodotto

25

25 anni di garanzia di potenza con decadimento lineare

Sistema Completo e Certificazioni di Prodotto

IEC 61215, IEC61730, UL1703

ISO9001: 2015: Sistema di Gestione della Qualità ISO

ISO14001: 2015: Sistema di Gestione Ambientale ISO

ISO45001: 2018: Salute e Sicurezza sul Lavoro

IEC62941: Linee Guida per la Qualifica della Progettazione del Modulo e l'Omologazione

LONGI



22.3%

MASSIMA EFFICIENZA
DEL MODULO

0~3%

TOLLERANZA
DI POTENZA

<1.5%

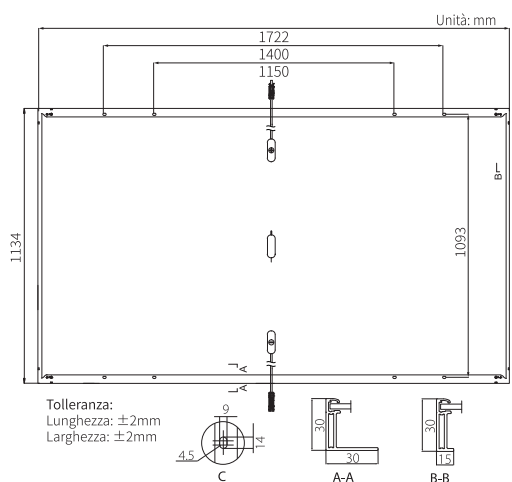
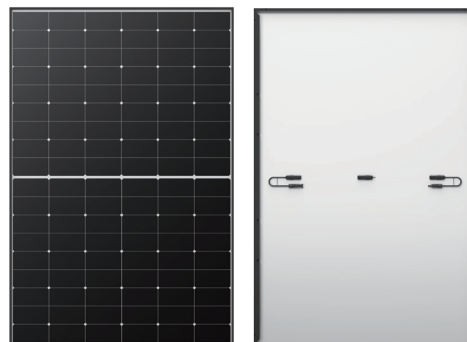
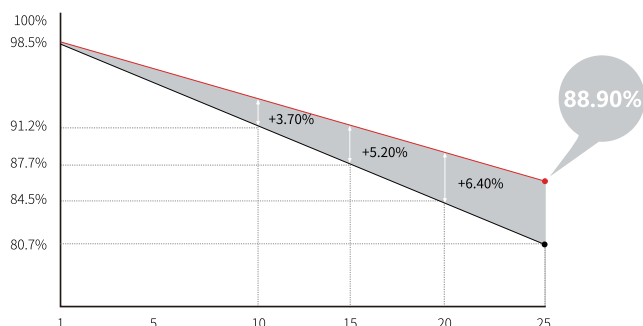
DEGRADO DELLA
POTENZA AL PRIMO ANNO

0.40%

DEGRADO DELLA POTENZA
DAL 2° al 25° ANNO

Valore aggiunto

Garanzia sulla potenza di 25 anni



Parametri Meccanici

Orientamento Celle	108 (6×18)
Scatola di Giunzione	IP68, 3 diodi
Cavo di uscita	4mm ² , ±1200mm la lunghezza può essere personalizzata
Vetro	Vetro singolo, 3.2mm vetro temperato rivestito
Telaio	Telaio in lega di alluminio anodizzato
Peso	20.8kg
Dimensioni	1722×1134×30mm
Confezione	36 pz a pallet / 216 pz a 20' GP / 936 pz a 40' HC

Caratteristiche Elettriche

STC : AM1.5 1000W/m² 25°C NOCT : AM1.5 800W/m² 20°C 1m/s Tolleranza di prova per Pmax: ±3%

Modello	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
Condizioni di Prova	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Potenza Massima (Pmax / W)	415	310	420	314	425	318	430	321	435	325
Tensione Circuito Aperto (Voc / V)	38.53	36.18	38.73	36.36	38.93	36.55	39.13	36.74	39.33	36.93
Corrente Corto Circuito (Isc / A)	13.92	11.24	14.00	11.31	14.07	11.36	14.15	11.43	14.22	11.49
Tensione alla Massima Potenza (Vmp / V)	32.24	29.42	32.44	29.60	32.64	29.78	32.84	29.97	33.04	30.15
Corrente alla Massima Potenza (Imp / A)	12.88	10.54	12.95	10.60	13.03	10.67	13.10	10.72	13.17	10.78
Efficienza del Modulo (%)	21.3		21.5		21.8		22.0		22.3	

Parametri Operativi

Temperatura di funzionamento	-40°C ~ +85°C
Tolleranza dell'Uscita di Potenza	0 ~ 3%
Tolleranza di Voc e Isc	±3%
Tensione Massima di Sistema	DC1500V (IEC/UL)
Valore Massimo di Serie Fusibili	25A
Temperatura operativa nominale della cella	45±2°C
Classe di Sicurezza	Class II
Classificazione Resistenza al fuoco	UL tipo 1 o 2 IEC Class C

Caricamento Meccanico

Carico Statico Massimo sul Lato Anteriore	5400Pa
Carico Statico Massimo sul Lato Posteriore	2400Pa
Test di resistenza alla grandine	Grandine di 25 mm alla velocità di 23 m/s

Valutazioni di Temperatura (STC)

Coefficiente di Temperatura di Isc	+0.050%/°C
Coefficiente di Temperatura di Voc	-0.230%/°C
Coefficiente di Temperatura di Pmax	-0.290%/°C

InfiniSolar V II

Operation without battery



InfiniSolar V II-1.5KW InfiniSolar V II-2KW / 3KW/5KW InfiniSolar V II-6KW

- Pure sine wave output
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 9 units only for 2KW/3KW/5KW/6KW models
- Battery Independent system

ON-GRID INVERTER WITH ENERGY STORAGE

InfiniSolar V II On-Grid Inverter With Energy Storage Selection Guide

MODEL	InfiniSolar V II 1.5KW	InfiniSolar V II 2KW	InfiniSolar V II 3KW-24V	InfiniSolar V II 3KW-48V	InfiniSolar V II 5KW	InfiniSolar V II 6KW
Phase	1-phase in / 1-phase out					
Maximum PV Input Power	2000W	3000W	4000W	4000 W	5000W	6000W
Rated Output Power	1500W	2000W	3000 W	3000W	5000W	6000W
Maximum Charging Power	2000W	2880W	1440W	2880W	5000W	5000W
GRID-TIE OPERATION						
PV INPUT (DC)						
Nominal DC Voltage / Maximum DC Voltage	120 VDC / 400 VDC	240 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 450 VDC	60 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18A	1 / 18A	1 / 18A	1 / 27A
GRID OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)					
Nominal Output Current	6.5A	8.7A	13A	13A	21.7A	26A
Power Factor	> 0.99					
EFFICIENCY						
Maximum Conversion Efficiency (DC/AC)	95%					
OFF-GRID OPERATION						
AC INPUT						
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC					
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC					
Frequency Range	50 Hz/60 Hz (Auto sensing)					
Maximum AC Input Current	30 A	30 A	40 A	40 A	40 A	40 A
PV INPUT (DC)						
Maximum DC Voltage	400 VDC	450 VDC	450 VDC	450 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18 A	1 / 18 A	1 / 18A	1 / 27A
BATTERY MODE OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					
Output Waveform	Pure sine wave					
Efficiency (DC to AC)	93%	93%	93%	93%	93%	93%
HYBRID OPERATION						
PV INPUT (DC)						
Nominal DC Voltage / Maximum DC Voltage	120 VDC / 400 VDC	240 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	120VDC / 150 VDC	130VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
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AC INPUT						
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC					
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC					
Maximum AC Input Current	30 A	30 A	40 A	40 A	40 A	40 A
BATTERY MODE OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					
Efficiency (DC to AC)	93%	93%	93%	93%	93%	93%
BATTERY & CHARGER						
Nominal DC Voltage	48 VDC	48 VDC	24 VDC	48 VDC	48 VDC	48 VDC
Maximum Solar Charging Current	30A	60 A	60 A	60 A	100 A	120 A
Maximum AC Charging Current	40A	60 A	60 A	60 A	100 A	120 A
Maximum Charging Current	40A	60 A	60 A	60 A	100 A	120 A
GENERAL						
PHYSICAL						
Dimension, D x W x H (mm)	100 x 300 x 440	120 x 295 x 468	120 x 295 x 468	120 x 295 x 468	120 x 295 x 468	120 x 295 x 468
Net Weight (kgs)	8	11	11	11	12	12
INTERACE						
Parallel Function	N/A	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units
Communication Port	USB or RS-232/Dry Contact					
ENVIRONMENT						
Humidity	0 ~ 90% RH (No condensing)					
Operating Temperature	-10°C to 50°C					

Product specifications are subject to change without further notice.

LIO II-4810 is Lithium-ion battery module specially designed for energy storage system with 48V system

- Lithium Iron Phosphate (LFP) cell guarantees safety and reliability
- Easy to install on the floor
- Suitable for wide range of inverters with 48V system



Compact size and Lightweight

Built-in Lithium Iron Phosphate (LFP) cell with less space and weight.



Fast charging

Battery module can be fully charged in shorter time.



Modular design for easy scalable

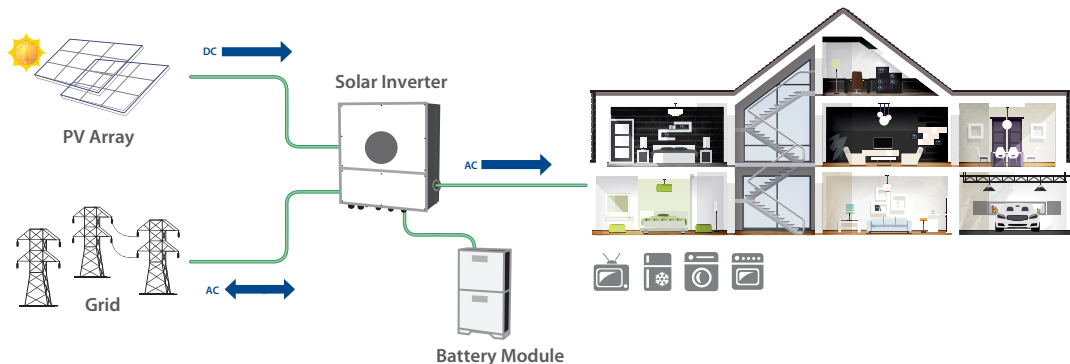
Battery module can be easily stacked and added for energy expansion.



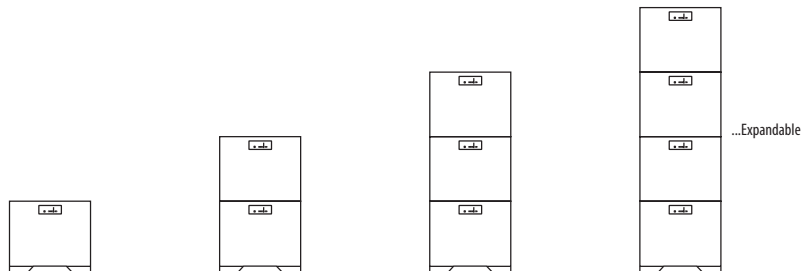
Maximum Lifecycle

8000 cycles is for 60% DOD with >50% capacity
2000 cycles is for 90% DOD with >80% capacity

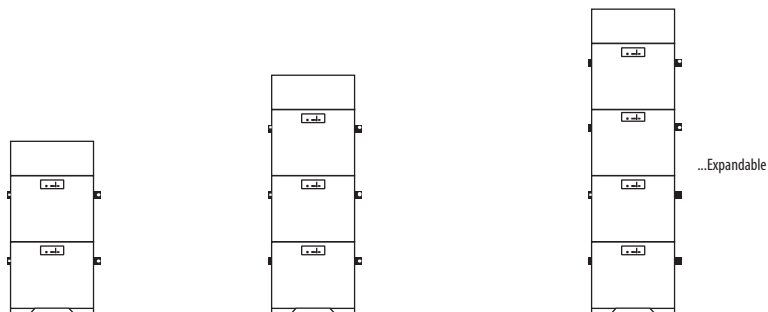
System Diagram



Technical Selection Guide



Battery Module	LIO II-4810 (5 kWh, 51.2V)			
Battery Cell Technology	Lithium Iron Phosphate			
Applicable Inverter Rating	≤ 5.6 kW			
Number of Module	1	2	3	4
Usable Energy	5 kWh	10 kWh	15 kWh	20 kWh
Rated Discharging Current	150 A	150 A	150 A	150 A
Peak Discharging Current	192 A, 1 min	192 A, 1 min	192 A, 1 min	192 A, 1 min
Nominal Voltage	51.2 V	51.2 V	51.2 V	51.2 V
Operating Voltage	40 -56 VDC	40 -56 VDC	40 -56 VDC	40 -56 VDC
Charging Current	100A Max, 30A Default	100A Max, 30A Default	100A Max, 30A Default	100A Max, 30A Default
Dimension, D x W x H (mm) without feet	185 x 540 x 420	185 x 540 x 840	185 x 540 x 1260	185 x 540 x 1680
Net Weight (kg)	48	96	144	192



Battery Module	LIO II-4810 (5 kWh, 51.2V)		
Battery Cell Technology	Lithium Iron Phosphate		
Applicable Inverter Rating	6 kW ~ 12 kW		
Number of Module	2	3	4
Number of PDU Module	1	1	1
Usable Energy	10 kWh	15 kWh	20 kWh
Rated Discharging Current	300 A	300 A	300 A
Peak Discharging Current	384 A, 1 min	384 A, 1 min	384 A, 1 min
Nominal Voltage	51.2 V	51.2 V	51.2 V
Operating Voltage	40 - 56 VDC	40 - 56 VDC	40 - 56 VDC
Dimension, D x W x H (mm) without feet	185 x 540 x 1040	185 x 540 x 1460	185 x 540 x 1880
Net Weight (kg)	102	150	198

General Specification

Operation Temperature	Charge	0°C~50 °C
	Discharge	0°C~50 °C
Storage Temperature (At 50% SOC and specified temp, recoverable capacity in % vs time / 50%)	< 18 months:	-20°C~25 °C
	< 3 months:	25°C~45 °C
	< 1 months:	45°C~60 °C
	20°C ± 5 °C is the recommended storage temperature	
IP Protection		IP20
Communication		RS485 port (RJ45), CAN
Certifications		UN38.3, IEC 62619

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