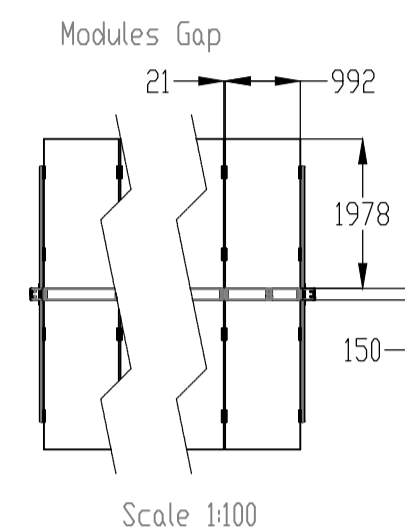
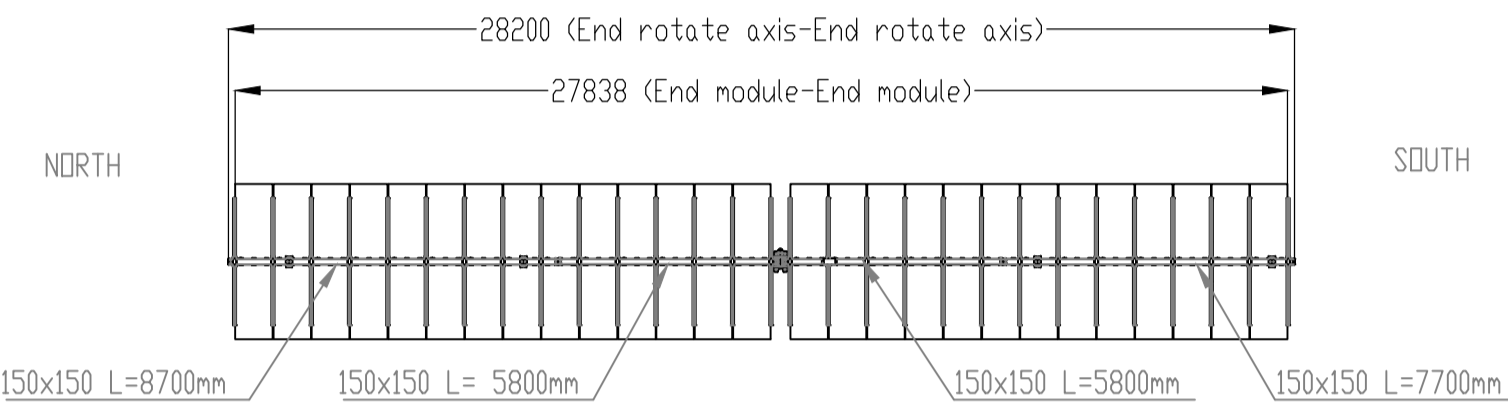


Note\*

Simple Support - Standard Embedment Length
60 Degrees
1.3m (1336mm)
1.5m (1563mm)
1.7m (1763mm)
2m (2032mm)
2.5m (2530mm)
2.8m (2835mm)
3m (3089mm)



SAFETRACK HORIZON - DETTAGLI COSTRUTTIVI scala 1: 50

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<b>COMUNE DI SASSARI</b>		
<b>OGGETTO</b> REALIZZAZIONE DI IMPIANTO FOTOVOLTAICO A TERRA 24,52 MW - TIPO A INSEGUIMENTO MONOASSIALE "TRUNCU REALE 3"		
<b>COMMITTENTE</b> ENERGYREALE3 SRL Via Semplicio Spano 10 - 07026 Olbia (SS)		
<b>PROGETTO DEFINITIVO</b>		
<b>ELABORATO</b> DETTAGLI COSTRUTTIVI - STRUTTURA FOTOVOLTAICA		<b>NUMERO ELABORATO</b> <b>AV 09</b> SCALA: VARIE DATA: MARZO 2023
3 2 1	Terza emissione Seconda emissione Prima emissione	Arch. Valentina Madeddu Arch. Chiara Martis Ing. S. Floris
REV. DATA	DESCRIZIONE	REDATTO CONTROLLATO APPROVATO
CODICE COMMESSA	NOME FILE	DEF IMPIANTI 00 FASE PROGETTUALE CATEGORIA REV.
<b>STUDIO ALCHEMIST:</b> Ing. Stefano Floris Arch. Cinzia Nieddu		<b>PROGETTISTA - TIMBRO E FIRMA</b> 
<b>COLLABORATORI:</b> Arch. Chiara Martis Arch. Valentina Madeddu Arch. Michela Melis Arch. Martina Sias Arch. Luigi Mereu Geol. Mario Strinna Geom. Alberto Barroccu		<b>PROGETTISTA - TIMBRO E FIRMA</b> 

# Hi-MO 5

## LR5-72HBD 525~550M

- Based on M10-182mm wafer, best choice for ultra-large power plants
- Advanced module technology delivers superior module efficiency
  - M10 Gallium-doped Wafer
  - Smart Soldering
  - 9-busbar Half-cut Cell
- Globally validated bifacial energy yield
- High module quality ensures long-term reliability

12 12-year Warranty for Materials and Processing

30 30-year Warranty for Extra Linear Power Output

**Complete System and Product Certifications**

IEC 61215, IEC 61730, UL 61730  
 ISO 9001:2008: ISO Quality Management System  
 ISO 14001:2004: ISO Environment Management System  
 TS62941: Guideline for module design qualification and type approval  
 OHSAS 18001: 2007 Occupational Health and Safety

## Hi-MO 5

## LR5-72HBD 525~550M

21.5% MAX MODULE EFFICIENCY	0~+5W POWER TOLERANCE	<2% FIRST YEAR POWER DEGRADATION	0.45% YEAR 2-30 POWER DEGRADATION	HALF-CELL Lower operating temperature
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**Additional Value**

Mechanical Parameters	
Cell Orientation	144 (6x24)
Junction Box	IP68, three diodes
Output Cable	4mm <sup>2</sup> , positive 400mm / negative 200mm length can be customized
Glass	Dual glass, 2.0mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	32.3kg
Dimension	2256x1133x35mm
Packaging	31pcs per pallet / 155pcs per 20' GP / 620pcs per 40' HC

Electrical Characteristics	STC: AM1.5 1000W/m <sup>2</sup> 25°C		Test uncertainty for Pmax: ±3%			
Power Class	525	530	535	540	545	550
Maximum Power (Pmax/W)	525	530	535	540	545	550
Open Circuit Voltage (Voc/V)	49.05	49.20	49.35	49.50	49.65	49.80
Short Circuit Current (Isc/A)	13.65	13.71	13.78	13.85	13.92	13.98
Voltage at Maximum Power (Vmp/V)	41.20	41.35	41.50	41.65	41.80	41.95
Current at Maximum Power (Imp/A)	12.75	12.82	12.90	12.97	13.04	13.12
Module Efficiency(%)	20.5	20.7	20.9	21.1	21.3	21.5

Operating Parameters		Mechanical Loading	
Operational Temperature	-40°C ~ +85°C	Front Side Maximum Static Loading	5400Pa
Power Output Tolerance	0 ~ +5 W	Rear Side Maximum Static Loading	2400Pa
Voc and Isc Tolerance	±3%	Hailstone Test	25mm Hailstone at the speed of 23m/s
Maximum System Voltage	DC1500V (IEC/UL)		
Maximum Series Fuse Rating	30A		
Nominal Operating Cell Temperature	45±2°C		
Protection Class	Class II		
Fire Rating	UL type 29		
Bifaciality	70±5%		

Temperature Ratings (STC)	
Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.284%/°C
Temperature Coefficient of Pmax	-0.350%/°C

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Specifications included in this datasheet are subject to change without notice. LONGI reserves the right of final interpretation. (20210115-Draft)

SCHEDE TECNICHE - PANNELLO FOTOVOLTAICO