MONO-FACIAL TWIN SERIES

Harvesting
THE POWER OF SUN

KEY FEATURES

- MBB HC Technology with smart soldering and excellent low light performance
- Bypass diodes and innovative series parallel connections enable the module to perform better in Partial shadow conditions.
- Three separate junction boxes reduce internal resistance and Improve heat dissipation
- Improved field reliability due to multiple contact points on the cell ,reduce micro cracks and lower risk of hot spot
- First choice for millions of banks and investors, this size is well-suited for almost all PV applications.
- Higher module conversion efficiency(up to 21.27%) benefit from Passivated Emmiter Rear Contact (PERC) technology
- IP68 junction box for long-term weather endurance.
- Heavy snow load up to 5400 Pa.
  Wind load upto 2400Pa.
- Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient
- Certified for PID free modules.

ISO9001:2015, ISO 14001:2004, OHSAS 18001:2007 Certified Company
IEC61215, IEC61730, IEC62804(PID), IEC61701, IEC62716, IEC61853 Certified Products

R-72002380

PERC MONO-CRYSTALLINE SOLAR PV MODULES, MONO-FACIAL, MBB, 144 • M10 HALF-CELL • 530 - 550 WATT

ELECTRICAL PARAMETERS AT STANDARD TEST CONDITIONS STC & NOCT

Model Type	LE144M530H		LE144M535H		LE144M540H		LE144M545H		LE144M550H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output Pmax (W)	530	396.71	535	400.45	540	404.19	545	408.10	550	411.68
Voltage at Pmax V mpp (V)	40.67	38.05	40.75	38.14	40.85	38.23	40.95	38.32	41.04	38.41
Current at Pmax I mpp (I)	13.04	10.43	13.14	10.50	13.23	10.57	13.32	10.65	13.41	10.72
Open-circuit Voltage Voc (V)	49.32	46.52	49.41	46.59	49.50	46.67	49.59	46.75	49.68	46.83
Short-circuit Current Isc (I)	13.67	11.04	13.76	11.09	13.84	11.15	13.91	11.21	13.98	11.26
Module Efficiency % (%)	20.50		20.70		20.88		21.08		21.27	

STC : 1000 W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.
NOCT : 800 W/m² irradiance, ambient temperature 20°C, wind speed 1 m/sec

THERMEL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	44+/-2
Temperature Coefficient of Pmax	γ	%/°C	-0.334
Temperature Coefficient of Voc	β	%/°C	-0.286
Temperature Coefficient of Isc	α	%/°C	0.056

OPERATING CONDITIONS

Max. System Voltage	1500VDC
Max. Series Fuse Rating	25A
Operating Temperature Range	-40°c to 85°c
Max. Static Load, Front	5400Pa
Max. Static Load, Back (e.g., wind)	2400Pa
Max. Hailstone Impact (diameter / velocity)	25mm / 23.3 m /s

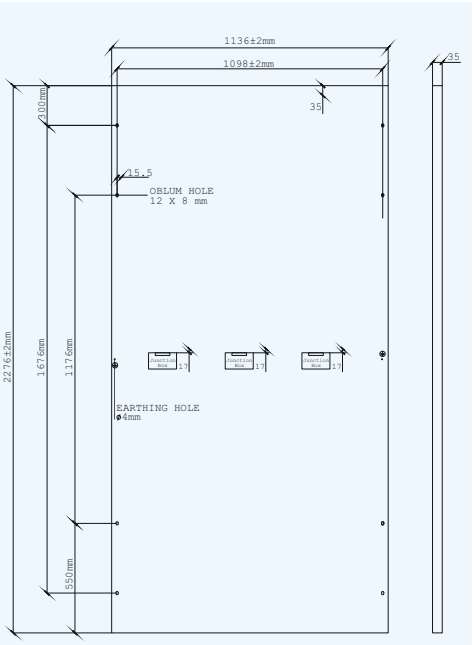
MECHANICAL DATA

Dimensions (L / W / H)	2276mm / 1136mm / 35mm
Weight	28kg
Front Cover (material / thickness)	AR coated high transmission low iron tempered glass / 3.2 mm
Cell (qty. / material / dim./no. of busbars)	144 / PERC Monocrystalline Silicon/ 182mm x 182mm / MBB
Encapsulate (material)	Ethylene vinyl acetate (EVA)
Backsheet	UV Protected
Frame (material / color)	Anodized aluminum alloy / silver
Junction Box (protection degree)	IP68 Split Junction Box, 3 bypass diodes
Cable (length / cross-sectional area)	400mm / 4mm2
Plug Connector (type / protection degree)	MC4 / IP68

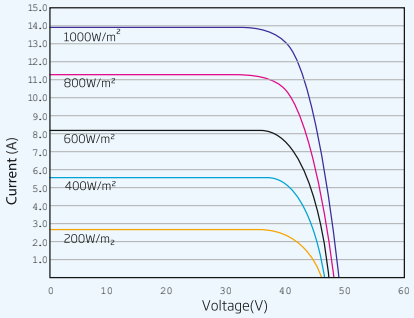
PACKAGING SPECIFICATIONS

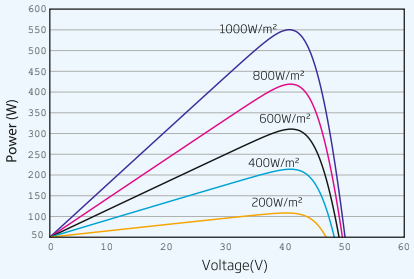
Number of Modules Per Pallet	30
Packaging Box Dimensions (L / W / H)	2331mm / 1140mm / 1351mm
Box Weight	900kg

ENGINEERING DRAWING (mm)



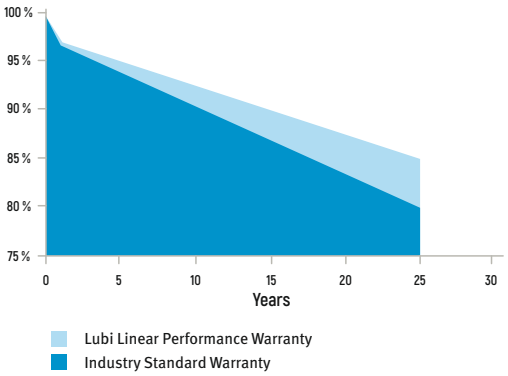
ELECTRICAL PERFORMANCE





LINEAR PERFORMANCE WARRANTY

- More than 93% of the specified output of the module for a 10 years period
- More than 84% of the specified output of the module for a 25 years period
- 10-year product warranty
- 25-year linear performance warranty



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Sardar Patel Ring Road, Nr. Karai Gam Patia, Nana Chiloda, Dist. : Gandhinagar - 382 330. Gujarat, INDIA
WhatsApp : +91-9099 933 445 **| Tel. :** +91-79-6674 5300 **| Fax :** +91-79-6674 5599 **| E-mail :** lubi@lubielectronics.com **| Website :** www.lubielectronics.com