



570-595 Watt

N-Type Dual Glass Modules

The all-new era of efficiency and performance
will set new standards in the industry

12-years product warranty



30-years linear performance warranty



Product & System Certifications



R-72011304
BIS 14286:2010
IS/IEC 61730:2004
IS/IEC 61730:2004



IEC 61215-1 & 2: 2021
IEC 61730-1 & 2: 2023
UL 61730-1 & 2: 2022

Quality & Reliability

IP68 Rated Junction Box for
Long-Term Weather Endurance.
Made with high-grade raw material to achieve
Quality, Durability, Efficiency, and through output.



Module Efficiency
Upto 23.03%



144
Half Cell



Weather
Resistant



Ideal For
Urban Environment

TRANS DUAL SERIES - TECHNICAL DATA

TECHNICAL DATA FOR LE144MBF (570 - 595)H N-TYPE TOPCON BI-FACIAL MODULE

ELECTRICAL PARAMETER AT STC ^{#1,2}

MODULE TYPE	LE144MBF (570-595)H					
Capacity rating - Pmax (Wp)	570	575	580	585	590	595
Power Tolerance (Wp)	0-4.99	0-4.99	0-4.99	0-4.99	0-4.99	0-4.99
Open circuit voltage - Voc(V)	51.08	51.28	51.48	51.68	51.88	52.08
Short circuit current - Isc(A)	14.24	14.30	14.36	14.42	14.48	14.54
Rated voltage - Vmp(V)	42.80	43.00	43.20	43.40	43.60	43.80
Rated current - Imp(A)	13.32	13.38	13.43	13.48	13.54	13.59
Module efficiency (%)	22.07	22.26	22.45	22.65	22.84	23.03

#1 Irradiance 1000 W/m², spectrum AM 1.5 and Module temperature of 25°C.

#2 Except Pmax other parameters have a tolerance of ± 3%

BI-FACIAL OUTPUT - REAR SIDE POWER GAIN***

5% Gain	Maximum Power (Pmax)	599	604	609	614	619.50	624.75
	Module Efficiency STC(%)	23.17	23.37	23.57	23.78	23.98	24.18
15% Gain	Maximum Power (Pmax)	666	661	667	673	649.00	654.50
	Module Efficiency STC(%)	25.37	25.60	25.82	26.04	25.12	25.34
25% Gain	Maximum Power (Pmax)	713	719	725	731	737.50	743.75
	Module Efficiency STC(%)	27.58	27.82	28.07	28.31	28.55	28.79

** Additional Power Gain from rear side is depends on albedo. (Higher albedo, the higher power gain.)

ELECTRICAL PARAMETER AT NOCT 3

Power (W)	429.55	433.32	437.09	440.86	444.89	449.12
Vmp (V)	40.31	40.48	40.68	40.88	41.08	41.28
Imp (A)	10.66	10.70	10.74	10.78	10.83	10.88
Voc (V)	48.53	48.72	48.91	49.10	49.30	49.50
Isc (A)	11.49	11.54	11.59	11.64	11.69	11.74

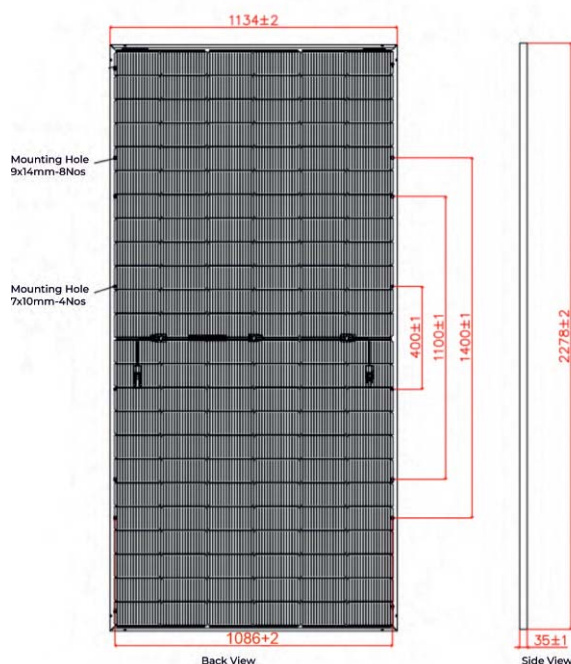
#3 NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

PRODUCT WARRANTY AND CERTIFICATIONS

Product warranty**	12 years
Performance guarantee**	30 years Linear power warranty with degradation of 1% in 1st year and 0.40% thereafter till 30 years.

**applicable only when module installation done as per LUBI installation manual

DRAWING (MEASUREMENTS ARE IN MM)



MECHANICAL SPECIFICATION

SPECIFICATION	DETAILS
Solar cells	N type Mono-crystalline Silicon, TOPCon
No. of cells	144 Half Cut (12x6 12x6)
Dimensions	(L) 2278 mm x (W) 1134 mm x (H) 35 mm
Backside	2.0mm, Heat Strengthened Patterned Glass
Front glass	2.0 mm, High Transmission, ARC Tempered Glass
Frame	Silver Anodized Aluminium Alloy
Weight	~32 kg
J-box	IP 68 certified, 3 diodes junction box
Cable	Solar cable 400mm length or Customized Length, 4 mm ²
Connectors	Compatible with MC4 connectors
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, wind load 2400 Pa

TEMPERATURE COEFFICIENT (TC)

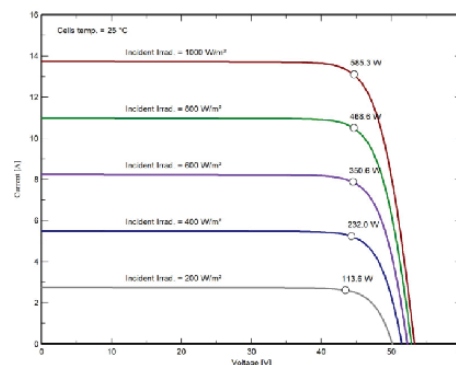
Temperature Coefficient (Voc)**	-0.23%/°C
Temperature Coefficient (Isc)**	0.03%/°C
Temperature Coefficient (Pmax)**	-0.30%/°C

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to +85°C
Maximum system voltage	1500 VDC
NOCT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s
Maximum series fuse rating	30A
Bifaciality Factor	80±10%

IV CURVE

PV module: SOLEX ENERGY LIMITED, STGP144M10B16



- For unpacking, handling & installation instructions refer to LUBI Energy's Manual guidelines available on the company website.
- Before placing an order confirm your requirements with our sales representative.
- The technical details, drawings and IV Curve here are for reference purposes only.
- Due to constant product modifications, LUBI reserves the right to amend the above specifications without prior notice.
- Dispose-off the product as E-Waste after the end of its working life.

PACKING CONFIGURATION

Container	40'HQ
Modules per Pallet	31
Pallets per Container	20
Modules per Container	620

LUBI ELECTRONICS

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