

ELECTRIC & PHOTOVOLTAIC DIVISION BENGALURU – 560012, INDIA DATASHEET SPV ENGINEERING

DOC. NO: SPV-4-02-00013

REV. 00 JOB NO.- SP1077

PAGE 01 OF 02 DT 12.08.20

SOLAR PHOTOVOLTAIC MODULE

1. PV MODULE TYPE

: MULTI CRYSTALLINE SOLAR MODULE

2. CONFIGURATION

: SINGLE GLASS LAMINATED TYPE WITH 72 NOS.

OF 156.75 mm \pm 0.5 mm / 157 mm \pm 0.5 mm (Typ.) SOLAR CELLS (12*6) IN SERIES CONFIGURATION.

3. OVERALL SIZE

: $1966 (\pm 3) * 986 (\pm 2) * 35 (\pm 1)$ mm

4. WEIGHT

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1

used directly or indirectly in anyway detrimental to the interest of the company.

: 22.5 Kg. (Typ.)

5. MAJOR BILL OF MATERIAL

SL NO.	BILL OF MATERIAL	DETAILS				
1	SOLAR CELL	MULTI CRYSTALLINE, HIGH EFFICIENCY, PID				
-	A. Carrier and A. Car	RESISTANT				
2	SOLAR GLASS	ANTI REFLECTION COATED,				
		LIGHT TRANSMISSION ≥ 93.5%, THICKNESS 3.2 mm				
3	EVA SHEET	OPTICAL TRANSMITTANCE > 91%,				
	45	PID RESISTANT, UV & WEATHER STABLE				
4	BACK SHEET	THREE LAYERED STRUCTURE, FLUOROPOLYMER				
		& PET BASED, THICKNESS MIN. 300 MICRONS				
5	FRAME	ANODISED ALUMINIUM FRAME (ANODIZATION				
		THICKNESS 18 ± 3 MICRONS)				
6	JUNCTION BOX	IP 67 GRADE JUNCTION BOX WITH CABLES				
		AND CONNECTORS (TUV CERTIFICATED), 1 KV				

6. CERTIFICATION ON SPV MODULE:

- IEC 61215, IS 14286: Crystalline silicon terrestrial photovoltaic (PV) modules Design qualification and type approval
- IEC 61730-1, IS / IEC 61730-1: Photovoltaic (PV) module safety qualification Part 1: Requirements for construction
- IEC 61730-2, IS / IEC 61730-2: Photovoltaic (PV) module safety qualification Part 2: Requirements for testing

ಕೇಂದ್ರ ಕಭೇರಿ: ಬಿಎಚ್ಇಎಲ್ ಹೌನ್,ಸಿರಿಫೋರ್ಟ್ ನವದೆಹಲಿ.-110049 पंजीकृत कार्यालय:बीएचइएल हाउस.नईदिल्ली-110049, REGD.OFFICE ; BHEL HOUSE SIRIFORT.NEW DELHI- 110049

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PAGE 02 OF 02

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7. PERFORMANCE WARRANTY:

- Product Warranty: The modules are warranted for 5 years for failures due to material defects and workmanship.
- Performance Warranty: Peak power output shall not be less than 90% at the end of 10 years and 80% at the end of 25 years from the completion of the trial run.

The warranty is subject to standard terms & conditions of sale and adherence by the customer to the installation & operation manual and instructions thereof.

8. TYPICAL ELECTRICAL CHARACTERISTICS:

Module Model No.	Voc (V)	Isc (A)	Vmp (V)	Imp (A)	Pmax (Wp) Min.	Fill Factor (FF) Min.
L24300P-320W	45.53	9.22	36.0	8.89	320	> 0.70

NOTE:

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- 1. Electrical specifications mentioned above are at Standard Test Conditions of 100 mW/sq.cm solar insolation (AM 1.5) and at 25 deg. C temperature.
- 2. Measurement repeatability of peak power output: \pm 3%.
- 3. Maximum System Voltage is 1000V DC.

Abbreviation:

- OPEN CIRCUIT VOLTAGE (Voc), SHORT CIRCUIT CURRENT (Isc)
- VOLTAGE AT PEAK POWER POINT (Vmp)
- CURRENT AT PEAK POWER POINT (Imp)
- PEAK POWER OUTPUT (P max).

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