

	 BHEL-EPD	DATASHEET FOR SOLAR PHOTOVOLTAIC MODULE NBCC KIDWAI NAGAR-1.25 MW (AC)		SPEC. NO: EP-901-01-00001																						
				REV. 00	JOB NO.- SP1016																					
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SPV MODULE TYPE: L24270P / L24300P (MULTI - 24 V, 300 to 330 WATTS)																										
1. PV MODULE TYPE NO. : L24270P / L24300P 2. CONFIGURATION : SINGLE GLASS LAMINATED TYPE WITH 72 NOS. OF 156-mm (Typ.) MULTI CRYSTALLINE SILICON SOLAR CELLS (12*6) IN SERIES CONFIGURATION. 3. OVERALL SIZE : 1966 (±3) * 986 (±2) * 35 (±1) mm 4. WEIGHT : 22.5 Kg. (Typ.) 5. RFID Tag : As per MNRE Guidelines 6. MAJOR BILL OF MATERIAL <table border="1"> <thead> <tr> <th>SL NO.</th> <th>BILL OF MATERIAL</th> <th>DETAILS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SOLAR CELL</td> <td>MULTI CRYSTALLINE</td> </tr> <tr> <td>2</td> <td>SOLAR GLASS</td> <td>ANTI REFLECTION COATED, LIGHT TRANSMISSION ≥ 93%</td> </tr> <tr> <td>3</td> <td>EVA SHEET</td> <td>THERMAL CONDUCTIVITY - 0.27 (W/ m.k.) OPTICAL TRANSMITTANCE > 91%, PID RESISTANT, UV & WEATHER STABLE</td> </tr> <tr> <td>4</td> <td>BACK SHEET</td> <td>THREE LAYERED STRUCTURE, FLUOROPOLYMER BASED, THICKNESS MIN. 300 MICRONS</td> </tr> <tr> <td>5</td> <td>PV MODULE FRAME MATERIAL</td> <td>ANODISED ALUMINIUM FRAME (ANODIZATION THICKNESS 18 ± 3 MICRONS)</td> </tr> <tr> <td>6</td> <td>JUNCTION BOX</td> <td>IP 67/ IP 65 GRADE JUNCTION BOX WITH CABLES AND CONNECTORS (TUV CERTIFICATED)</td> </tr> </tbody> </table> 7. CERTIFICATION ON SPV MODULE: - IEC 61215: DESIGN QUALIFICATION AND TYPE APPROVAL FOR CRYSTALLINE Si SPV MODULE. - IEC 61730-1: SPV MODULE SAFTY QUALIFICATION REQUIREMENTS FOR CONSTRUCTION. - IEC 61730-2: SPV MODULE SAFTY QUALIFICATION REQUIREMENTS FOR TESTING. - IEC 61701: SALT MIST CORROSION TESTING SPV MODULE. - IEC 62804: PID TEST (DURABILITY TEST) ON CRYSTALLINE PV MODULE.						SL NO.	BILL OF MATERIAL	DETAILS	1	SOLAR CELL	MULTI CRYSTALLINE	2	SOLAR GLASS	ANTI REFLECTION COATED, LIGHT TRANSMISSION ≥ 93%	3	EVA SHEET	THERMAL CONDUCTIVITY - 0.27 (W/ m.k.) OPTICAL TRANSMITTANCE > 91%, PID RESISTANT, UV & WEATHER STABLE	4	BACK SHEET	THREE LAYERED STRUCTURE, FLUOROPOLYMER BASED, THICKNESS MIN. 300 MICRONS	5	PV MODULE FRAME MATERIAL	ANODISED ALUMINIUM FRAME (ANODIZATION THICKNESS 18 ± 3 MICRONS)	6	JUNCTION BOX	IP 67/ IP 65 GRADE JUNCTION BOX WITH CABLES AND CONNECTORS (TUV CERTIFICATED)
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SOLAR PHOTOVOLTAIC MODULE
NBCC KIDWAI NAGAR-1.25 MW (AC)**

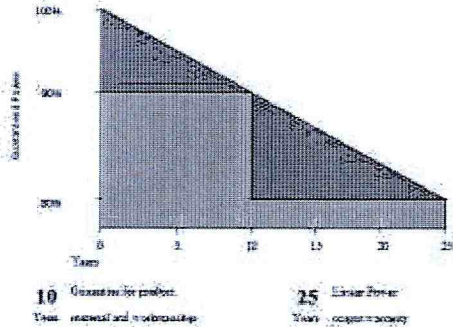
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8. PERFORMANCE WARRANTY:



9. TYPICAL ELECTRICAL CHARACTERISTICS:

Type No.	Voc (V)	Isc (A)	Vmp (V)	Imp (A)	Pmax (Wp) Min.	Fill Factor (FF) Min.
L24270P-300W	45.0	8.70	36.0	8.33	300	≥ 0.70
L24270P-305W	45.0	8.80	36.0	8.47	305	≥ 0.70
L24270P-310W	45.0	8.80	36.0	8.61	310	≥ 0.70
L24270P-315W	45.0	8.90	36.0	8.75	315	≥ 0.70
L24270P-320W	45.0	9.05	36.0	8.89	320	≥ 0.70
L24270P-325W	45.5	9.10	36.5	8.90	325	≥ 0.70
L24270P-330W	45.5	9.20	37.0	8.92	330	≥ 0.70

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Type No.	Voc (V)	Isc (A)	Vmp (V)	Imp (A)	Pmax (Wp) Min.	Fill Factor (FF) Min.
L24300P-300W	44.82	8.88	36.0	8.33	300	≥ 0.70
L24300P-305W	44.91	8.99	36.0	8.47	305	≥ 0.70
L24300P-310W	44.05	9.10	36.0	8.61	310	≥ 0.70
L24300P-315W	45.29	9.11	36.0	8.75	315	≥ 0.70
L24300P-320W	45.53	9.22	36.0	8.89	320	≥ 0.70
L24300P-325W	45.72	9.31	36.5	8.90	325	≥ 0.70
L24300P-330W	46.00	9.41	37.0	8.92	330	≥ 0.70

NOTE:

- 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.
- Measurement repeatability of peak power output: $\pm 3\%$.

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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