

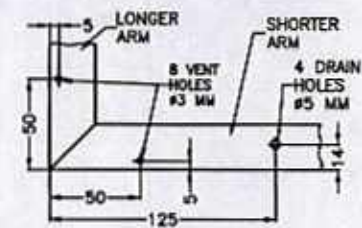
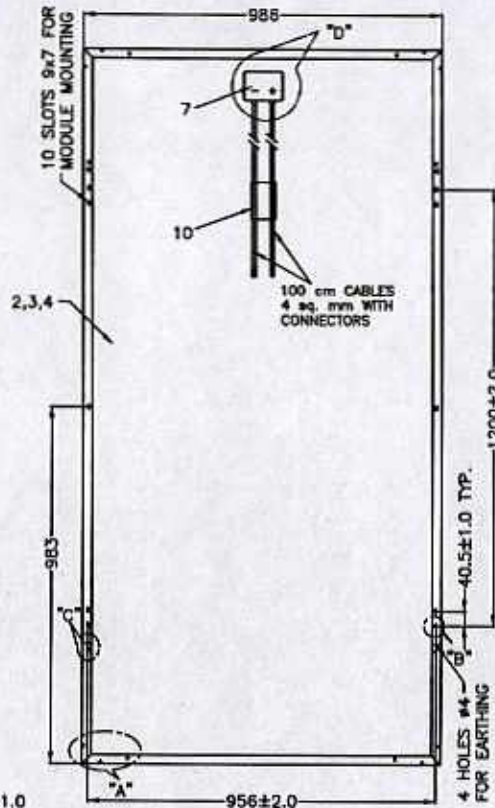
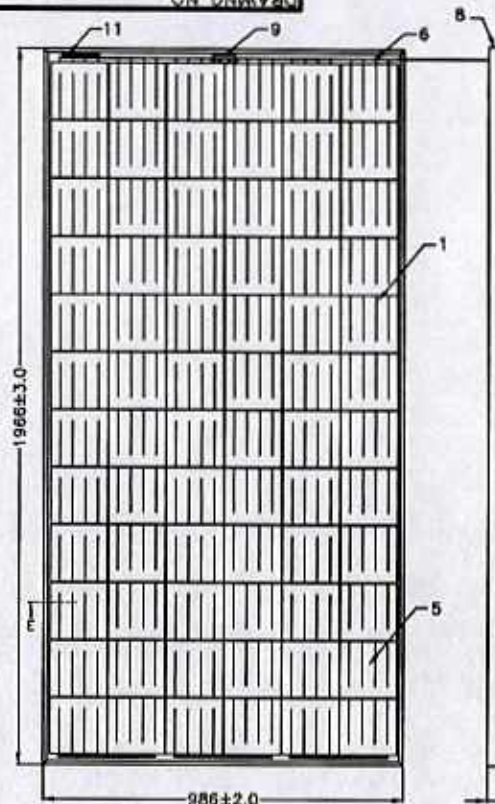
FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN mm

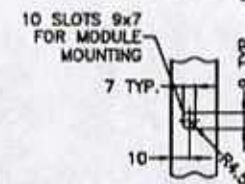
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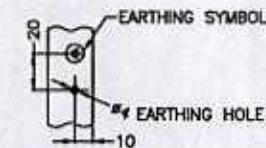
DRAWING NO. 3 988 00 002 10



DETAIL - "A"



DETAIL - "B"

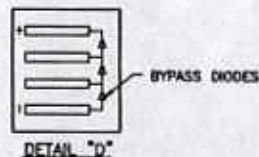


DETAIL - "C"

NOTE : REFER DATA SHEET NO. EP-901-01-00001

WEIGHT OF SPV MODULE = 22.5 Kg (Typ.)

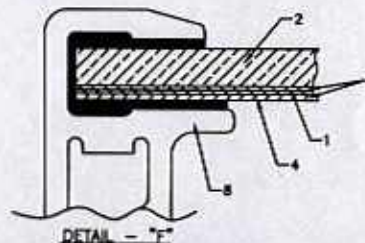
PART	DESCRIPTION
11	RFD TAG
10	MODULE RATING STICKER
9	PV MODULE SL. NO. STICKER
8	ANODISED ALUMINIUM FRAME (Coating Thk. - 18+/- 3 Microns)
7	JUNCTION BOX WITH CABLE & MC CONNECTOR
6	BUS BAR
5	INTERCONNECTS
4	BACK SHEET
3	EVA SHEET
2	HIGH TRANSMISSION TEMPERED GLASS
1	72 Nos. OF 156 mm MULTI CRYSTALLINE SILICON SOLAR CELLS CONNECTED IN SERIES



DETAIL - "D"



SECTION - "F-F"



DETAIL - "E"

REV.	DATE	ALTERED	CHECKED	APPROVED	REV.	DATE	ALTERED	CHECKED	APPROVED	REV.	DATE	ALTERED	CHECKED	APPROVED

FIRST ISSUE



BHARAT HEAVY ELECTRICALS LIMITED.
ELECTROPROCELAINS DIVISION, BANGALORE

DEPT.	FOR UNSPECIFIED-TOLERANCES	SCALE	WEIGHT/Kg	REF. TO ASSY.	JOB NO.	ITEM NO.	NO. OF ITEM
SPV	REFER ED 0230499	1 : 10		DWG.	SP1018		
CODE 901							
TITLE	DRAWING NO.			REV.			
SOLAR PHOTOVOLTAIC MODULE (SPV)	3 988 00 002 10			00			
156mm Multi Solar Cell (Corner Block Type)	SHEET NO. 01			NO. OF SHEETS 01			

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**DATASHEET FOR
SOLAR PHOTOVOLTAIC MODULE
NBCC KIDWAI NAGAR-1.25 MW (AC)**

SPEC. NO: EP-901-01-00001

REV. 00 JOB NO:- SP1016

PAGE 01 OF 03

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

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)

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.

REVISION (00): 1st Issue dtd. 16.10.2017

PREPARED BY:

RKP

REVIEWED BY:

NAR SD/-

APPROVED

CNP SD/-

ISSUED

SPV ENGG.

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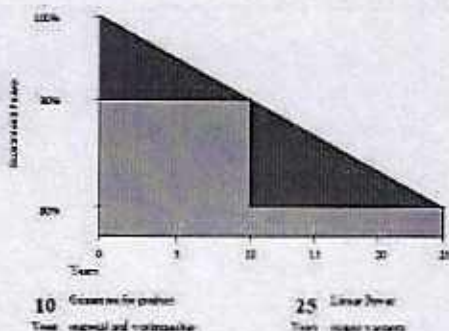
**DATASHEET FOR
SOLAR PHOTOVOLTAIC MODULE
NBCC KIDWAI NAGAR-1.25 MW (AC)**

SPEC. NO: EP-901-01-00001

REV. 00 JOB NO.- SP1016

PAGE 02 OF 03

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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**DATASHEET FOR
SOLAR PHOTOVOLTAIC MODULE
NBCC KIDWAI NAGAR-1.25 MW (AC)**

SPEC. NO: EP-901-01-00001

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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:

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: ±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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