

# Taruna Series (3 Watt to 30 Watt)

## 18 & 36 Cells

### S2E003 to S2E030

We design and manufacturing small modules for house hold application.  
Taruna series used for below application.

- Small Home Lighting System
- Solar lanterns
- Traffic Control Lights
- Solar Street Light
- Solar Torch
- Mobile Charger

#### Electrical Characteristics

Module Type	S2E003	S2E005	S2E010	S2E015 / S2E020	S2E025	S2E030	S2E030
Pmax (W)	3.00	5.00	10.00	15 / 20	25.00	30.00	30.00
Vmax (V)	9.71	9.71	19.41	19.41	19.41	19.41	19.41
I <sub>max</sub> (A)	0.35	0.53	0.53	0.84 / 1.05	1.40	1.68	1.68
Voc (V)	11.48	11.48	22.96	22.96	22.96	22.96	22.96
Isc (A)	0.37	0.56	0.56	0.89 / 1.12	1.49	1.79	1.79
Module Efficiency (%)	8.31	10.53	11.43	11.43 / 12.8	13.30	12.52	12.52

#### Mechanical Characteristics

L X W X T	190X190X 17	295X190X 17	300X355X 17	440X355X 17	545X3355 X17	640X355X 17	640X355 X35
Mounting Hole (Y)mm	95.00	147.50	150.00	240.00	272.5	300.00	300.00
Mounting Hole (X)mm	167.00	167.00	332.00	332.00	332.00	332.00	326.00
Cell Per Module/Arrangement	18 / 6X3	18 / 9X2	36 / 9X4	36 / 18X2	36 / 18X2	36 / 18X2	36 / 18X2
Cell Type	Polycrystalline						
Front Cover (Material/Thickness)	tempered & Low Iron Glass , 3.2 / 4.0mm						
Encapsulate	Ethylene Vinyl Acetate						
Frame	Anodized Aluminium						
JB	IP65 Rated with bypass diode						
Connector	As per Customer Requirement (Optional)						
Cable	As per Customer Requirement (Optional)						

\*Standard Test condition (STC): 1000W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Measuring Uncertainty +/-3%

Refer installation manual instructions & sun2earth warranty statement for terms and condition.

Sun2Earth Solar reserves the right to change the specifications without prior notice.



# Ujjaval Series (40 Watt to 165 Watt)

## 36 Cells

### S2E040 to S2E165

Ujjaval Series (36 Cells) Solar Module generally used for off-grid solar system to charge 12V battery which can be used in the daily requirements, These off grid products such as solar street lights, solar home lighting kits, solar water heaters, solar chargers, solar cooker etc are a boon to those living in remote villages and areas which lack the grid connectivity and therefore live in dark.

We are manufacturing high quality of 36 Cells modules, wherein you get a wide range of panels which can be used for the manufacturing of such products to meet your off-grid power requirements, Ujjaval series used for below application.

- Solar Street Light
- Solar Telecom solution
- Electrical Vehicle Charging station
- Roof Top Off Grid solution
- Traffic control System
- Solar Water Pumps

#### Electrical Characteristics

Module Type	S2E040	S2E050	S2E060	S2E075	S2E080	S2E100 / S2E110	S2E125	S2E160 / S2E165
Pmax (W)	40.00	50.00	60.00	75.00	80.00	100 / 110	125.00	160 / 165
Vmax (V)	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41 / 19.63
I <sub>max</sub> (A)	2.10	2.62	3.16	3.91	4.20	5.25 / 5.68	6.48	8.41 / 8.47
Voc (V)	22.96	22.96	22.96	22.96	22.96	22.96	22.96	22.96 / 23.10
Isc (A)	2.24	2.79	3.36	4.16	4.47	5.58 / 6.04	6.89	8.94 / 8.98
Module Efficiency (%)	>13	>14	>14	>15	>15	>14 / >16	>16	>16

#### Mechanical Characteristics

L X W X T	425 X 665 X 30 / 35	505 X 665 X 30 / 35	605 X 665 X 30 / 35	735 X 665 X 30 / 35	775 X 665 X 30 / 35	1010 X 665 X 35	1155 X 665 X 35	1485 X 665 X 35
Mounting Hole (Y)mm	260.00	300.00	300.00	500.00	600.00	600.00	600.00	660.00
Mounting Hole (X)mm	636.00	636.00	636.00	636.00	636.00	636.00	636.00	636.00
Cell Per Module/Arrangement	36 / 9X4	36 / 9X4	36 / 9X4	36 / 9X4	36 / 9X4	36 / 9X4	36 / 9X4	36 / 9X4
Cell Type	Polycrystalline							
Front Cover (Material/Thickness)	tempered & Low Iron Glass , 3.2 / 4.0mm							
Encapsulate	Ethylene Vinyl Acetate							
Frame	Anodized Aluminium							
JB	IP65 Rated with bypass diode							
Connector	As per Customer Requirement (Optional)							
Cable	As per Customer Requirement (Optional)							

\*Standard Test condition (STC): 1000W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Measuring Uncertainty +/-3%

Refer installation manual instructions & sun2earth warranty statement for terms and condition.

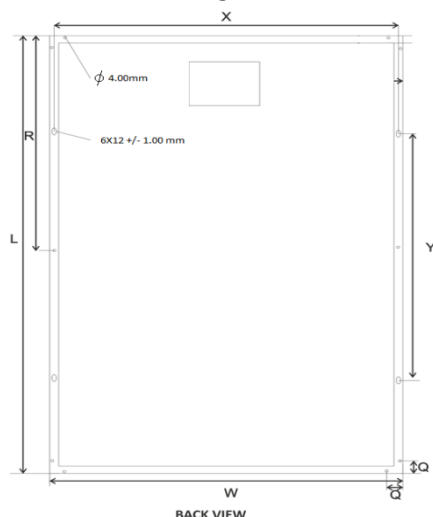
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# Bhaskara Series (200 Watt to 245 Watt)

## S2E200 to S2E245

Our Bhaskara Series is the most versatile module. While compact enough to fit on residential and commercial roofs, it is still economical enough to meet the needs of larger, utility-scale projects. This series fetcher as per below:



- 1000V UL listed.
- PID Free Solar cells.
- Silver anodized aluminium frame.
- Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.
- Reliable Product suiting all environment conditions.
- Designed for very high area efficiency ideally suited for roof-top and ground mounted applications.
- Excellent module efficiency by reducing cell to module power loss.

### Electrical Characteristics

Module Type	S2E200-24V	S2E220-24V	S2E245-24V	S2E200-12V	S2E220-12V	S2E245-12V
Pmax (W)	200.00	220.00	245.00	200.00	200.00	245.00
Vmax (V)	38.83	38.83	29.15	19.41	19.41	19.51
Imax (A)	5.25	5.68	8.41	10.49	11.35	12.64
Voc (V)	45.92	45.92	34.44	22.96	22.96	23.08
Isc (A)	5.58	6.04	8.94	11.16	12.08	13.51
Module Efficiency (%)	>15	>16	>16	>15	>16	>16

### Mechanical Characteristics

L X W X T	1335X990X35		1490X990X35	1335X990X35		1490X990X35
Mounting Hole (Y)mm	750.00	750.00	750.00	750.00	750.00	750.00
Mounting Hole (X)mm	961.00	961.00	961.00	961.00	961.00	961.00
Cell Per Module/Arrangement	72 / 12X6	72 / 12X6	54 / 9X6	72 / 12X6	72 / 12X6	72 / 12X6
Cell Type	Polycrystalline					
Front Cover (Material/Thickness)	High transmission low iron tempered AR glass					
Encapsulate	Ethylene Vinyl Acetate					
Frame	Anodized Aluminium					
JB	IP65 Rated with bypass diode					
Cable & Connector	MC4 Connectors & 1000 / 1200 mm length cables					

\*Standard Test condition (STC): 1000W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Measuring Uncertainty +/-3%

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# Brihat Series (260 Watt to 335 Watt)

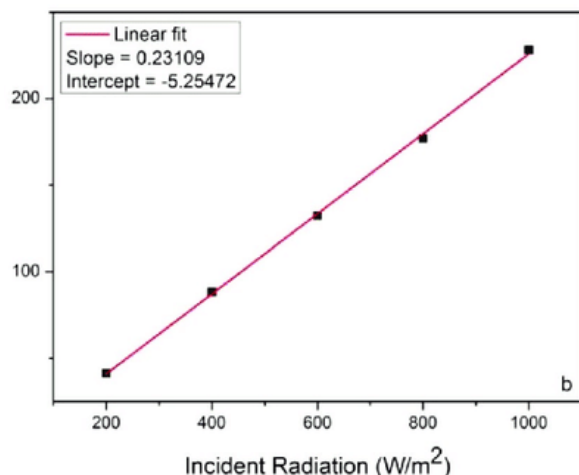
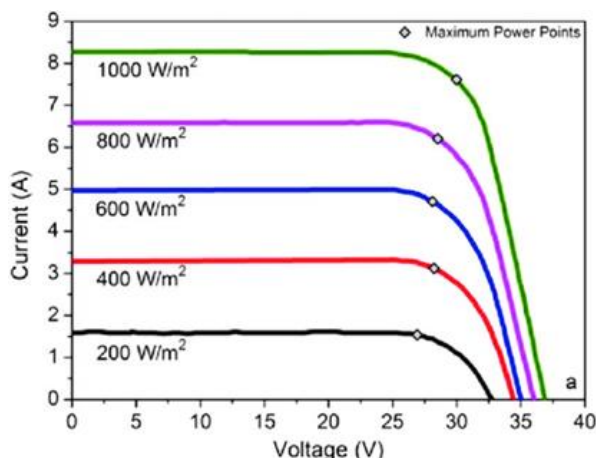
## 60 & 72 Cells (MULTI CRYSTALLINE MODULE)

### S2E260 to S2E335

- Our Brihat Series is the most versatile module. While compact enough to fit on residential and commercial roofs, it is still economical enough to meet the needs of larger, utility-scale projects. This series fetcher as per below:
- 1000V UL listed.
- PID Free Solar cells.
- Silver anodized aluminium frame.
- Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.
- Reliable Product suiting all environment conditions.
- Designed for very high area efficiency ideally suited for roof-top and ground mounted applications.
- Excellent module efficiency by reducing cell to module power loss.

### Some application of Brihat Series:

- On-grid large scale utility systems.
- On-grid rooftop residential, commercial and industrial solar installations.
- Off-grid residential systems.
- Solar pumping applications.



Electrical Characteristics			
Module Type	S2E260	S2E265	S2E270
Pmax (W)	260.00	265.00	270.00
Vmax (V)	31.60	32.00	32.35
Imax (A)	8.27	8.31	8.40
Voc (V)	36.75	37.97	38.26
Isc (A)	8.78	8.85	8.95
Module Efficiency (%)	>16	>16	>16

Module Type	S2E325	S2E330	S2E335
Pmax (W)	325.00	330.60	335.28
Vmax (V)	37.80	38.00	38.10
Imax (A)	8.60	8.70	8.80
Voc (V)	46.20	46.30	46.50
Isc (A)	9.03	9.24	9.35
Module Efficiency (%)	>16	>17	>17

# Brihat Series (260 Watt to 335 Watt)

## 60 & 72 Cells (MULTI CRYSTALLINE MODULE)



Mechanical Characteristics		
Module Type	S2E260, S2E265, S2E270	S2E325, S2E330, S2E335
L X W X T	1640X990X35	1960X990X35
Mounting Hole (Y)mm	820.00	1130 , 1360
Mounting Hole (X)mm	961.00	961.00
Cell Per Module/Arrangement	60 / 10X6	72 / 12X6
Cell Type	Polycrystalline	
Front Cover (Material/Thickness)	High transmission low iron tempered AR glass	
Encapsulate	Ethylene Vinyl Acetate	
Frame	Anodized Aluminium	
JB	IP65 Rated with bypass diode	
Connector	1000 / 1200 mm length cables	
Cable	MC4 Connectors	
*Standard Test condition (STC): 1000W/m2 irradiance, Air Mass 1.5 and 25°C cell temperature. Measuring Uncertainty +/-3%		
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