

# ORION SERIES

## POLYCRYSTALLINE SMALL SOLAR MODULES | 36 CELLS



### Key Features

- 10Wp – 165Wp
- High conversion efficiency
- Only positive power output tolerance
- Excellent performance in low light and low irradiance.
- 100% EL Inspected to ensure micro crack free modules.
- Resistant to PID, LID and Salt-Mist/Ammonia corrosion
- Hotspot and defect free modules.
- Certified to withstand harsh environmental conditions.
- 10 years of linear output power warranty.

## SMALL MODULES 36 CELLS

MODEL TYPE	NOVA10P36	NOVA20P36	NOVA40P36	NOVA50P36	NOVA60P36
Cell Type	POLYCRYSTALLINE	POLYCRYSTALLINE	POLYCRYSTALLINE	POLYCRYSTALLINE	POLYCRYSTALLINE
MAXIMUM POWER( Pmax) Wp	10	20	40	50	60
MAXIMUM POWER VOLTAGE (Vmp) V	18.10	18.10	18.20	18.20	18.20
MAXIMUM POWER CURRENT( Imp) A	0.56	1.11	2.20	2.75	3.30
OPEN CIRCUIT VOLTAGE( Voc) V	22.00	22.00	22.20	22.20	22.20
SHORT CIRCUIT CURRENT( Isc) A	0.71	1.25	2.41	2.99	3.34
MODULE LENGTH	300	470	435	535	660
MODULE WIDTH	355	355	670	670	670
MODULE THICKNESS	22	22	30	30	30
MODULE EFFICIENCY ( >) %	9.39	11.99	13.72	13.95	13.57

MODEL TYPE	NOVA75P36	NOVA100P36	NOVA125P36	NOVA160P36	NOVA165P36
Cell Type	POLYCRYSTALLINE	POLYCRYSTALLINE	POLYCRYSTALLINE	POLYCRYSTALLINE	POLYCRYSTALLINE
MAXIMUM POWER( Pmax) Wp	75	100	125	160	165
MAXIMUM POWER VOLTAGE (Vmp) V	18.20	18.20	18.50	18.50	18.90
MAXIMUM POWER CURRENT( Imp) A	4.13	5.50	6.76	8.65	8.74
OPEN CIRCUIT VOLTAGE( Voc) V	22.20	22.20	22.20	22.20	22.35
SHORT CIRCUIT CURRENT( Isc) A	4.65	5.86	6.54	9.25	9.32
MODULE LENGTH	775	1005	1250	1485	1485
MODULE WIDTH	670	670	670	670	670
MODULE THICKNESS	30	30	30	30	30
MODULE EFFICIENCY ( >) %	14.44	14.80	14.92	16.08	16.58

### Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	45°C ± 2 °C
Temperature coefficient of Pmpp	-0.41%/°C
Temperature coefficient of Voc	-0.36%/°C
Temperature coefficient of Isc	+0.052%/°C

### Mechanical Data & General Data

Cell Orientation	9 X 4
Front Glass	Tempered 3.2 mm Thickness
Frame	Anodized Aluminum Alloy

### Maximum Ratings

Operating Temperature	-40 to 85°C
Maximum System Voltage	600 V / 1000 V
Maximum Series Fuse Rating	6A / 10A / 15A
Application Classification	A
Electrical Positive Tolerance(%)	0~3
Under Standard Test Condition (STC) of Irradiance of 1000 w/m2, Spectrum AM 1.5 and Cell Temperature of 25°C	

**Note:**

- Refer to module installation instructions for maximum loading configurations.
- All mechanical dimension tolerance ± 1mm.

\*Listed specifications are subject to change without notice.

### IV Curve

