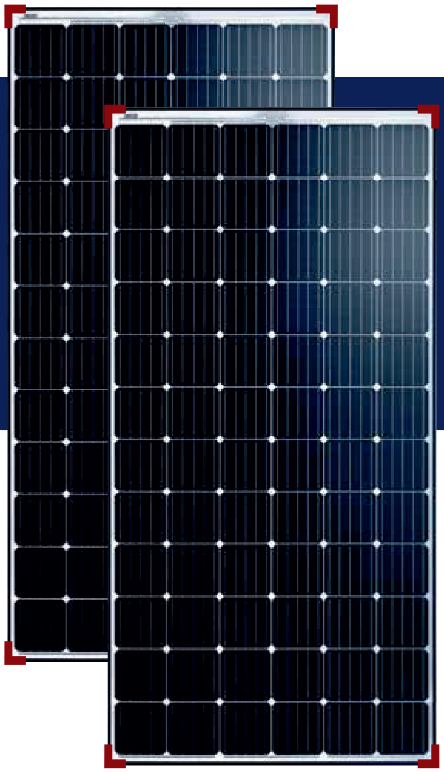


# SOLAR PANELS

390-400 Wp 72 Cell
Mono Solar Panel

## MONO SOLAR PANELS

### PERC Solar Cells

- The mono cell with >22.6% average mass Production efficiency

### More Power Per m ²

- Higher conversion efficiency
  =
  More Power Per Unit Area

### More Profits:

Higher conversion efficiency helps you Save:

- Transportation Cost
- Installation Cost
- Structure,Wiring, etc Cost

SERVOTEC
smart power solutions

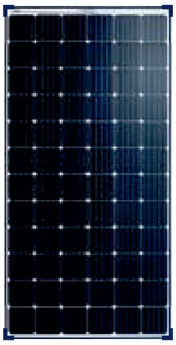
# SOLAR PANELS

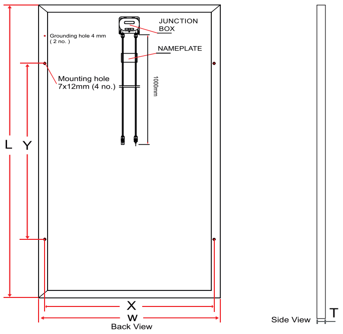
## 390-400 Wp 72 Cell
## Mono Solar Panel

### ELECTRICAL DATA (STC)

| Model No. : | STM390-M | STM400-M |
|---|---|---|
| Peak Power Watts - $P_{MAX}$ (Wp) | 390 | 400 |
| Power Output Tolerance - $P_{MAX}$ | 0 ~ +5 | 0 ~ +5 |
| Maximum Power Voltage - $V_{MPP}$ (V) | 40.60 | 41.30 |
| Maximum Power Current - $I_{MPP}$ (A) | 9.61 | 9.70 |
| Open Circuit Voltage - $V_{OC}$ (V) | 48.80 | 49.20 |
| Short Circuit Current - $I_{SC}$ (A) | 10.00 | 10.16 |
| Module Efficiency $\eta_m$ (%) | 20.02 | 20.27 |
| **ELECTRICAL DATA (NOCT)** | | |
| Peak Power - $P_{MAX}$ (Wp) | 288.60 | 296.30 |
| Maximum Power Voltage - $V_{MPP}$ (V) | 37.43 | 38.08 |
| Maximum Power Current - $I_{MPP}$ (A) | 7.71 | 7.79 |
| Open Circuit Voltage - $V_{OC}$ (V) | 45.14 | 45.51 |
| Short Circuit Current - $I_{SC}$ (A) | 8.08 | 8.21 |
| **MECHANICAL DATA** | | |
| Solar Cells Per Module ( Units ) | 72 | |
| Monocrystalline Solar Cells Size | 5BB - 157 x 157 | 5BB |
| Length x Width x Thickness (L x W x T) mm | L = 1966<br>W = 991<br>T = 35 | 1986<br>1000<br>35 |
| Mounting Holes Pitch (X)– mm | 956 ± 1.5mm | 968.0±1.5 mm |
| Mounting Holes Pitch (Y)– mm | 983 ± 1.5mm | 993.0±1.5 mm |
| Weight - Kg | 17.600Kg | |
| Front Cover | High transmission low iron tempered AR coated Glass | |
| Encapsulate | EVA (Ethylene Vinyl Acetate) | |
| Backcover | Back Sheet (Composite film) | |
| Frame | Anodized Aluminium Frame hollow Profile | |
| J - Box | IP67 / 68 4 terminal 3 bypass diodes | |
| Cables | 1000 mm Length | |
| Connector | (MC4) Amphenol | |

## Engineering Drawings





### MAXIMUM RATINGS

| | |
|---|---|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1000 Vdc |
| Max Series Fuse Rating | 15A |

### TEMPERATURE RATINGS

| | |
|---|---|
| Nominal Operating Cell Temperature (NOCT) | 45°C (±2°C) |
| Temperature Coefficient of $P_{MAX}$ | -0.38%/ ºC |
| Temperature Coefficient of $V_{OC}$ | -0.28%/ ºC |
| Temperature Coefficient of $I_{SC}$ | 0.04%/ ºC |

### WARRANTY

10 year Product Workmanship Warranty

25 year Linea Power Warranty for 80% Power

(Please refer to product warranty for details)