

# OS PERC 25

## Mono Crystalline PV Module

### 100Wp 12V

### RAL-100M36M5B

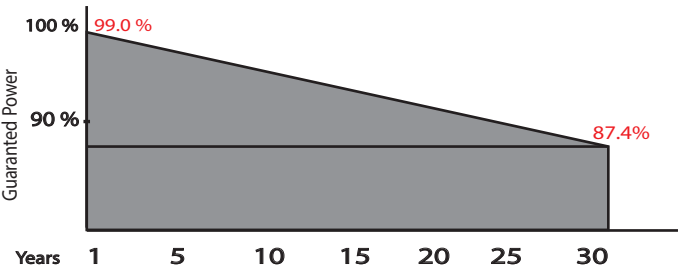
- 100 % EL Test to Ensure Error Free Module
- High Conversion Efficiency With High Reliability
- Uniform Electrical Performance
- Excellent Power Generation
- Excellent Anti-PID Performance
- Low Hot Spot Effect
- High Salt Mist Resistance

 12 Years Product Warranty

 30 Years Linear Power Warranty

 1% Degradation for 1st year  
 0.4% Annual Degradation Over 30 years.

**Linear power performance graph**



#### Complete System and Product Certifications

IEC 61215, IEC 61730, IEC 61701, IEC 62804, UL 61730  
 ISO9001:2015: Quality Management System  
 ISO14001:2015: Environmental Management System  
 ISO45001:2018: Occupational Health and Safety

Mechanical Characteristics

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| Cell Type                | Mono-crystalline PERC, 156 x 156mm                 |
| No. of Cells             | 36 (4*9)                                           |
| Junction Box             | IP65, 2-Diodes                                     |
| Cable Cross-section size | N/A (Cable can be customized)                      |
| Cable Length             | N/A (Cable can be customized)                      |
| Front Glass              | 3.2mm (High transmission, low iron tempered glass) |
| Encapsulant Material     | POE/EVA                                            |
| Protection Class         | Class II                                           |
| Fire Performance         | Class C                                            |
| Frame                    | Anodized Aluminium Alloy                           |
| Weight                   | 6 kg                                               |
| Module Dimensions        | 905 x 655 x 30mm                                   |

\*MC4 and MC4-EVO2 available upon request to availability

Packaging Configuration

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Pallet Dimensions (L x W) | 1400 x 1100mm                                     |
| Packaging Configuration   | 108pcs/pallet, 864pcs/20' & 1728pcs/40' Container |

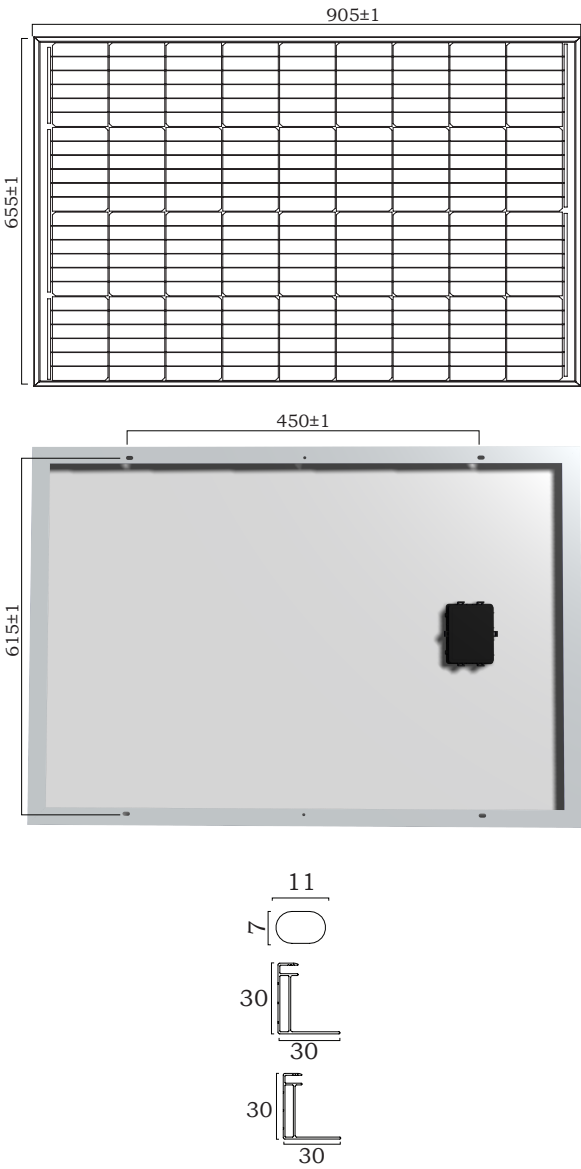
Specifications (STC)

|                                 |           |
|---------------------------------|-----------|
| Maximum Power - Pmax [Wp]       | 100       |
| Maximum Power Voltage - Vmp [V] | 19.61     |
| Maximum Power Current - Imp [A] | 5.11      |
| Open-circuit Voltage - Voc [V]  | 23.47     |
| Short-circuit Current - Isc [A] | 5.41      |
| Module Efficiency STC (%)       | 17.72     |
| Power Tolerance                 | ±3%       |
| Temperature Coefficient of Pmax | -0.38%/°C |
| Temperature Coefficient of Voc  | -0.36%/°C |
| Temperature Coefficient of Isc  | 0.07%/°C  |

Operating Conditions

|                                |                |
|--------------------------------|----------------|
| Maximum System Voltage         | 1000 VDC (IEC) |
| Maximum Series Fuse Rating     | 10 A           |
| Operating Temperature          | - 40°C~+85°C   |
| Voc and Isc Tolerance          | ±3%            |
| Front Side Maximum Static Load | 5400 Pa        |
| Back Side Maximum Static Load  | 2400 Pa        |
| NOCT                           | 45±2°C         |

Engineering Drawing



STC: ☀ Irradiance 1000W/m²

🌡 Cell Temperature 25°C

☁ AM=1.5

Electrical Performance

