

Multi

**Mono**

Specialised



**DESERV**<sup>®</sup>

\*Module images for representation purpose only

## Solar PV Module DESERV 3S6 or 3S6H Mono / Mono PERC

### Series M2

60 Cells: 285 Wp - 310 Wp

72 Cells: 345 Wp - 400 Wp

The ideal PV Module for all applications that use the highest quality of PV Cells, in-house Encapsulants, and Backsheets.

### Certifications:

- IEC Certified: 61215, 61730
- IEC TS 62804
- IEC 61701
- IEC 62716
- IEC 60068-2-68
- BIS Number R-63000760
- IEC 61853 (3S6 350 Wp)
- Independently audited by SOLARBUYER
- IMS Certified Company - ISO 9001: 2015 & OHSAS 18001:2007
- EMS - ISO 14001: 2015



Independently Audited by  
**SOLARBUYER**



### SAFE



IP67 Junction box



10 years of product warranty



25 Years of limited power output warranty



1000 Vdc or 1500 Vdc



### RELIABLE



Extreme weather resilience



Windspeed - 2400 Pa,  
Snowload - 5400 Pa



Highly reliable anti-reflective coated glass



### HIGH PERFORMANCE



PID resistant



Low light performance



High power density

### Ideal for:



Residential



Commercial



Utility



Off-grid

### Registered Office

98, Jolly Maker Chambers No.2,  
225 Nariman Point,  
Mumbai - 400 021,  
Maharashtra, India

### Factory

Plot No.6, Survey # 114/P,  
Srinagar Village, Maheshwaram  
Mandal, Dist - Rangareddy,  
Hyderabad - 501 359, Telangana, India

- Please refer to the installation manual for detailed information.

Performance under standard test conditions (1000w/m<sup>2</sup>, AM 1.5, 25 °C)

| DESERV 3S6 or 3S6H (Wp)          | 60 Cells |        |        |        |        |        | 72 Cells |        |        |        |        |        |        |        |        |        |        |        |  |
|----------------------------------|----------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|                                  | 285      | 290    | 295    | 300    | 305    | 310    | 345      | 350    | 355    | 360    | 365    | 370    | 375    | 380    | 385    | 390    | 395    | 400    |  |
| Rated power (Pmax), Wp           | 285      | 290    | 295    | 300    | 305    | 310    | 345      | 350    | 355    | 360    | 365    | 370    | 375    | 380    | 385    | 390    | 395    | 400    |  |
| Max. power voltage (Vmp), V      | 32.80    | 32.85  | 33.05  | 33.40  | 33.67  | 33.97  | 38.82    | 39.05  | 39.28  | 39.50  | 39.72  | 39.94  | 40.17  | 40.39  | 40.57  | 40.74  | 40.93  | 41.10  |  |
| Max. power current (Imp), A      | 08.71    | 08.85  | 08.94  | 09.00  | 09.06  | 09.13  | 08.90    | 08.98  | 09.06  | 09.14  | 09.21  | 09.28  | 09.35  | 09.42  | 09.49  | 09.57  | 09.65  | 09.73  |  |
| Open circuit voltage (Voc), V    | 39.42    | 39.62  | 39.65  | 39.80  | 40.19  | 40.51  | 47.62    | 47.92  | 48.22  | 48.52  | 48.82  | 49.12  | 49.41  | 49.69  | 49.78  | 49.87  | 49.87  | 49.87  |  |
| Short circuit current (Isc), A   | 09.50    | 09.56  | 09.68  | 09.71  | 09.75  | 09.82  | 09.50    | 09.56  | 09.62  | 09.68  | 09.74  | 09.80  | 09.87  | 09.93  | 09.99  | 10.05  | 10.11  | 10.17  |  |
| Module efficiency (%)            | 17.59    | 17.90  | 18.21  | 18.52  | 18.83  | 19.14  | 17.85    | 18.11  | 18.37  | 18.62  | 18.88  | 19.14  | 19.40  | 19.66  | 19.92  | 20.18  | 20.44  | 20.70  |  |
| NOCT (Wp) at 45 ± 2 °C @800 W/m² |          |        |        |        |        |        |          |        |        |        |        |        |        |        |        |        |        |        |  |
| Pmax (W)                         | 212.11   | 215.83 | 219.54 | 223.26 | 226.99 | 230.71 | 256.75   | 260.48 | 264.20 | 267.92 | 271.64 | 275.36 | 279.09 | 282.81 | 286.53 | 290.25 | 293.97 | 297.69 |  |
| Max. power voltage (Vmp), V      | 29.99    | 30.04  | 30.22  | 30.54  | 30.79  | 31.07  | 35.50    | 35.71  | 35.92  | 36.12  | 36.32  | 36.52  | 36.74  | 36.94  | 37.10  | 37.26  | 37.43  | 37.59  |  |
| Max. power current (Imp), A      | 07.09    | 07.20  | 07.27  | 07.32  | 07.37  | 07.43  | 07.24    | 07.31  | 07.37  | 07.44  | 07.50  | 07.55  | 07.61  | 07.67  | 07.73  | 07.79  | 07.86  | 07.92  |  |
| Open circuit voltage (Voc), V    | 36.65    | 36.83  | 36.86  | 37.00  | 37.37  | 37.67  | 44.27    | 44.55  | 44.83  | 45.11  | 45.39  | 45.67  | 45.94  | 46.20  | 46.29  | 46.37  | 46.37  | 46.37  |  |
| Short circuit current (Isc), A   | 07.76    | 07.81  | 07.91  | 07.93  | 07.97  | 08.02  | 07.76    | 07.81  | 07.86  | 07.91  | 07.96  | 08.01  | 08.07  | 08.12  | 08.17  | 08.22  | 08.26  | 08.31  |  |

| Mechanical Characteristics | 60 & 72                                                     |
|----------------------------|-------------------------------------------------------------|
| Cable                      | No. 12 AWG, 4mm <sup>2</sup> , (1.2m Standard)              |
| PV Connectors              | MC4 Compatible (MC4/TYCO on request)                        |
| Frame                      | Anodized Aluminum Alloy                                     |
| Junction box               | IP67 Junction box with 4 rail<br>(3 bypass diodes of 15 A)  |
| Glass                      | 3.2mm Thick low iron tempered<br>(4mm available on request) |

| Operating Conditions                 | 60 & 72      |
|--------------------------------------|--------------|
| Ambient temperature, °C              | -40 to +85   |
| Max. system voltage, V <sub>dc</sub> | 1000 or 1500 |
| Hail impact velocity, m/sec          | 23           |
| Max. surface load capacity, Pa       | 5400         |
| Max. wind speed capacity, Pa         | 2400         |

| Cell Temperature Coefficient | 60 & 72       |
|------------------------------|---------------|
| Open circuit voltage         | -0.28 % / °C  |
| Short circuit current        | +0.048 % / °C |
| Nominal power                | -0.36 % / °C  |

| Physical Parameters     | 285 Wp - 310 Wp   | 345 Wp - 400 Wp   |
|-------------------------|-------------------|-------------------|
| No. of cells            | 60                | 72                |
| Module dimension (mm)   | 1641 X 987 ( ± 2) | 1958 X 987 ( ± 2) |
| Module thickness (mm)   | 40 or 35          | 40 or 35          |
| Approximate weight (kg) | 18 or 17.7        | 21.5 or 21.2      |

| Packaging Configuration - 3S6 | 60       | 72       |
|-------------------------------|----------|----------|
| No. of Modules/pallet         | 26 or 29 | 26 or 29 |

Module Dimension Diagrams (mm)

