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Solar Panel Guide Specification Data Sheet

RenewSys India Private Limited

DESERV 3S6 285-310

DESERV 3S6 310

Also available on the web at

EnergyPal.com/renewsys-india-private-limited-solar-panels/deserv-3s6-310

Multi **Mono** Specialised



*Module images for representation purpose only

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

60 Cells: 285 Wp - 310 Wp
72 Cells: 345 Wp - 380 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






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:



RenewSys is the first integrated manufacturer of Solar PV Modules and its key components- Encapsulants (EVA and POE), Backsheets and Solar PV Cells. We have a global presence with offices in India, Mauritius, Nigeria, South Africa, Singapore, UAE, China, representatives in Brazil, Europe, USA, Mexico, and an evolving distributor network.

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/m², 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
Rated power (P _{max}), Wp	285	290	295	300	305	310	345	350	355	360	365	370	375	380
Max. power voltage (V _{mp}), 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
Max. power current (I _{mp}), 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
Open circuit voltage (V _{oc}), 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
Short circuit current (I _{sc}), 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
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
NOCT (Wp) at 45 ± 2 °C @800 W/m²														
P _{max} (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
Max. power voltage (V _{mp}), 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
Max. power current (I _{mp}), 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
Open circuit voltage (V _{oc}), 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
Short circuit current (I _{sc}), 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

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

Operating Conditions	60 & 72
Ambient temperature, °C	-40 to +85
Max. system voltage, Vdc	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 - 380 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		
No. of Modules/pallet	26 or 29	26 or 29

Module Dimension Diagrams (mm)

