

Radiant Solar Private Limited, an ISO 9001:2008 certified company, is dedicated to develop alternative forms of renewable energy in an effort to promote a more intelligent solution to powering our lives and passionately committed to promoting green energy choices to combat global warming, and to support a clean and sustainable future for our children.

Radiant Solar manufacturer of high-performance photovoltaic multi crystalline silicon modules for residential, commercial and utility scale power generation, at FAB city Special Economic Zone of the Government in Hyderabad, India.

The modules are tested and certified at TUV Rheinland, Germany for IEC 61215, IEC 61730 - 1 & 2 including fire C rating test and UL Laboratory for IEC 61701 against salt mist corrosion.

The Modules are manufactured in a dust free Air-Conditioned clean room meeting the stringent International specifications

# Radiant Solar Quality

- Positive Power Tolerance 0~+5watt
- Potential Induced Degradation (PID) Resistant
- Modules Binned by current to improve system performance
- Manufactured in Air Conditioned dust free clean room

# **Outstanding Warranty**

- 10 Years product warranty
- 25 years performance warranty









Australia



### Features

- > Multicrystalline modules designed for residential, commercial, and utility-scale power generation.
- High output, Highest conversion efficiency
- Designed for IEC DC 1000V applications
- > Tested and certified by TUV Rheinland, Germany as per IEC 61215, IEC 61730-1 & 2 with class C fire rating.
- > Tested and certified by UL Laboratory as per IEC 61701 for Salt Mist Corrosion.
- > Excellent Mechanical load resistance high wind load 2400pa

## RS-60 Series | Poly-Crystalline Photovoltaics

Electrical Characteristics		STC (Stan	dard Test (	Condition)		NOCT	(Nominal (	Operating C	Cell Temper	rature)
	230Wp	235Wp	240Wp	245Wp	250Wp	230Wp	235Wp	240Wp	245Wp	250Wp
Max Peak Power, Pmax (W)	230	235	240	245	250	167	171	175	179	181
Max Peak Voltage, Vmp (V)	30.36	30.66	30.96	31.32	31.56	27.43	27.7	27.97	28.	28.4
Max Peak Current, Imp (A)	7.55	7.66	7.77	7.82	7.92	6.04	6.13	6.22	6.31	6.34
Open Circuit Voltage, Voc (V)	36.78	37.08	37.20	37.34	37.68	33.97	34.25	34.36	34.6	34.8
Short Circuit Current, Isc (A)	8.22	8.35	8.47	8.51	8.63	6.64	6.75	6.84	6.97	6.97
Maximum System Voltage (V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Efficiency (%)	14.16	14.47	14.78	15.2	15.4					

Pmax, Voc, Isc, Vmp and Imp tested at STC (Standard Test Condition) defined as irradiance of 1000W/m² at AM 1.5 solar spectrum 25  $\pm$  2° C

Pmax, Voc, Isc, Vmp and Imp tested at NOCT (Nominal Operating Cell Temperature) defined as irradiance of 800W/  $m^2$ ; wind speed 1m/s

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Type of Cell	60 Poly-crystalline Solar Cell
Module Dimension	1640mm x 990mm x 40mm
Mounting Holes	Elliptical and 8 nos (9mm x 14mm)
Grounding Hole	Circular and 2 nos (4mm dia.)
Frame	Anodized Aluminum Fromo
Traine	Anouizeu Aluminum Frame
Cell Dimension	156mm x 156mm
Cell Dimension Weight	156mm x 156mm 19.5 Kg
Cell Dimension Weight Connector	156mm x 156mm       19.5 Kg       IP 67 plug and play connector



### RS-72 Series | Poly-Crystalline Photovoltaics

Electrical Characteristics		STC (Star	dard Test	Condition)		NOCT	(Nominal (	Operating (	Cell Temper	rature)
	260Wp	270Wp	280Wp	290Wp	300Wp	260Wp	270Wp	280Wp	290Wp	300Wp
Max Peak Power, Pmax (W)	260	270	280	290	300	189	195	202	210	217
Max Peak Voltage, Vmp (V)	36.43	36.43	36.72	37.29	37.72	32.91	32.91	33.17	33.69	34.08
Max Peak Current, Imp (A)	7.12	7.39	7.62	7.83	7.94	5.71	5.93	6.06	6.27	6.34
Open Circuit Voltage, Voc (V)	44.13	44.13	44.42	44.85	45.21	40.76	40.76	41.03	41.43	41.76
Short Circuit Current, Isc (A)	7.92	8.12	8.22	8.53	8.62	6.40	6.52	6.64	6.89	6.97
Maximum System Voltage (V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Efficiency (%)	13 47	13 99	14.5	15 02	15 54					

Pmax, Voc, Isc, Vmp and Imp tested at STC (Standard Test Condition) defined as irradiance of 1000W/m<sup>2</sup> at AM 1.5 solar spectrum  $25 \pm 2^{\circ}$  C

Pmax, Voc, Isc, Vmp and Imp tested at NOCT (Nominal Operating Cell Temperature) defined as irradiance of 800W/m<sup>2</sup>; wind speed 1m/s

# Green energy for life

Mechanical Charact	eristics
Type of Cell	72 Poly-crystalline Solar Cell
Module Dimension	1950mm x 990mm x 40mm
Mounting Holes	Elliptical and 8 nos (9mm x 7mm)
Grounding Hole	Circular and 2 nos (4mm dia.)
Frame	Anodized Aluminum Frame
Cell Dimension	156mm x 156mm
Weight	24.5 Kg
Connector	IP 67 plug and play connector



## RS-72 CP Series | Poly-Crystalline Photovoltaics

Electrical Characteristics		STC (Stan	dard Test (	Condition)		NOCT	(Nominal O	Operating C	Cell Temper	ature)
	170Wp	175Wp	180Wp	185Wp	190Wp	170Wp	175Wp	180Wp	185Wp	190Wp
Max Peak Power, Pmax (W)	170	175	180	185	190	123	127.00	130.50	135.00	138
Max Peak Voltage, Vmp (V)	37.72	37.73	37.75	37.77	37.79	34.08	34.08	34.08	34.08	34.09
Max Peak Current, Imp (A)	4.50	4.63	4.77	4.90	5.03	3.61	3.72	3.82	3.93	4.03
Open Circuit Voltage, Voc (V)	44.35	44.35	44.35	44.42	44.49	40.96	40.96	40.96	41.03	41.10
Short Circuit Current, Isc (A)	4.91	5.05	5.20	5.34	5.49	3.97	4.08	4.20	4.32	4.43
Maximum System Voltage (V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Efficiency (%)	12.91	13.29	13.67	14.05	14.43					

Pmax, Voc, Isc, Vmp and Imp tested at STC (Standard Test Condition) defined as irradiance of 1000W/m<sup>2</sup> at AM 1.5 solar spectrum  $25 \pm 2^{\circ}$  C

Pmax, Voc, Isc, Vmp and Imp tested at NOCT (Nominal Operating Cell Temperature) defined as irradiance of 800W/m<sup>2</sup>; wind speed 1m/s

Mechanical Charact	eristics
Type of Cell	72 Poly-crystalline Solar Cell
Module Dimension	1330mm x 990mm x 40mm
Mounting Holes	Elliptical and 8 nos(9mm x 14mm)
Grounding Hole	Circular and 2 nos (4mm dia.)
Frame	Anodized Aluminum Frame
Cell Dimension	104mm x 156mm
Weight	16 Kg
Connector	IP 67 plug and play connector

### I-V Curve





















#### Certifications

Cer	tific	ate TUVRheinland
Registration No.: PV 60095298	Page 1	Report No.: 21219419.001
License Hölder Radiant Solar Pvt. Ltd. Porths. 15, Factory SEZ, Raiviyal Village Porths. 15, Factory SEZ, Raiviyal Village India Manufacturing Plant: Radiant Solar Pvt. Ltd. Porths. 15, Factory SEZ, Raiviyal Village Manesiman Mendal, RK Danket Hyderabad- 10 1510	Product: PV Modules with 6" poly cell R5xxxP-40 (21 R5xxxP-46 (17 R5xxxP-46 (17 R5xxxP-46 (17 R5xxxP-36 (10 R5xxxP-36 (10 R5xxxP-36 (03 R5xxxP-36 (03	5 5 312 in steps of 1, with 72 cells) 3 -200 in steps of 1, with 90 cells) 0 -201 in steps of 1, with 94 cells) 0 -201 in steps of 1, with 44 cells) 5 -200 in steps of 1, with 36 cells) 5 -200 in steps of 1, with 36 cells)
Proa	xxx represent o	stput power in Wp
Basis:		
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Remarks: - Valid in corpunction with TÜV Rheinland certificate bes	ed on IEC EN 61730.	
Conditions: The product text is valuetarily according to technical representation of some of the sublicities of texts in require the repetition of some of the sublicities texts in The certificate has a validity of 5 years countin	ulations. Any change of 8 order to retain type appro g from date of issue.	te design, materialis, components or processing ma ex
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Registrations No.: PV 6005200     Learne Volatie     Radiest Sofaer PM. LLC     Radiest Sofaer PM. LLC     Registrations No.: Sofaer PM. Sofaer P	Page 1 Product: PV Modules with 6" poly on RissonP-72 (2) RissonP-80 (2) RissonP-84 (1) RissonP-84 (1) RissonP-84 (1) RissonP-84 (1) RissonP-84 (0) XXX represent (	Report No.: 21219420.001
License fully and the second s	Product: WH Modules RSsouP-20 (2) RSsouP-20 (2) RSsouP-24 (1) RSsouP-24 (1)	64 55 - 372 in steps of 1, with 72 cells) - 360 in steps of 1, with 73 cells) 85 - 361 in steps of 1, with 86 cells) 87 - 361 in steps of 1, with 36 cells) 45 - 360 in steps of 1, with 36 cells) 45 - 300 in steps of 1, with 36 cells) 11 - 90 askep of 1, with 16 cells) 13 - 90 askep of 1, with 16 cells)
Basis: EC 61730-1:2004 EC 61730-2:2004 EN 61730-1:2007 EN 61730-2:2007 Photovidue (PV) module salety		
Basis: EC 61730-1:2004 IEC 61730-2:2004 EN 61730-2:2007 EN 61730-2:2007 Photovolase (PV) module safety		
EC 61730-1:2004 IEC 61730-2:2004 EN 61730-2:2007 EN 61730-2:2007 Photovalac (PV) module safety		
qualification"     Grationy Inspection     To document the consistent quality of     the product factory inspections are     performed periodically.     Ramaka     Volid in conjunction, with TUV Revoluted certificate lase	et on EC EN 61275.	CIENTIFIC D
<ul> <li>The above listed PV modules fullt the requirements of A plants at a maximum system voltage (Vicc at STC) of ve The above listed PV modules fullt the rest immediate of all</li> </ul>	o to 1990 VDC	es II ecc. to IEC 61140). They may be used in PV
Conditions: The product test is voluntarily according to technical rep may repart the repetition of some of the qualification test The certificate has a validity of 5 years counting	pulations. Any change o to in order to retain type i g from date of issue.	if the design, materials, components or processing approval.
		Certification body
		(Job)



### Manufacturing Unit:

Radiant Solar Private Limited Plot No.15, Fabcity SEZ, Hyderabad –501510

Phone: +91 8977062000 info@radiantsolar.us www.radiantsolar.us

Registered Office: Radiant Solar Private Limited R-832, New Rajinder Nagar, New Delhi – 110060 India.

\* Due to continuous R&D efforts, product appearance and specifications may be changed without notice.