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Greener than Green



ITS Off-grid 80

ITS Off-grid modules are perfectly suitable for various rural and industrial applications

High Performance

The ITS Off-grid series covers a wide range of off-grid applications like solar home systems or street lighting and can additionally be used for powering telecom or monitoring systems. Unmatched quality control in the cell process and top-class module manufacturing secure a safe investment with highest performance in the long term.

Resistance Against Environmental Influences

ITS Off-grid modules are manufactured based on upgraded crystalline solar cells. They feature excellence in manufacturing and yields. Equipped with approved components that bear mechanical and environmental treatments they ensure stable energy output even under challenging climate conditions.

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The cell and module process of ITS improves the overall production efficiency of the PV-industry while achieving highest production quality. The raw material used for ITS Cells is usable only by ITS' unique process, resulting in the lowest carbon footprint for crystalline modules.

Long Term Warranty

Our modules come with a 5 year statutory warranty. Performance guarantee is 90% of output power for 10 years and 80% for 25 years, according to the Warranty Conditions of ITS.



ITS Off-grid 80 – PolyUp Poly 17 V – STC*

Pmax	Wp	70	80	90
Vmpp	V	17.73	17.93	18.10
Impp	А	4.00	4.48	4.96
Voc	V	21.30	21.46	21.95
lsc	А	4.23	4.82	5.30
η	%	9.73 – 11.11	11.12 – 12.50	12.51 – 13.90

Poly 34 V - STC*

Pmax	Wp	70	80	90
Vmpp	V	35.90	36.37	36.44
Impp	А	1.95	2.20	2.47
Voc	V	42.16	43.06	43.92
lsc	А	2.26	2.59	2.69
η	%	9.73 – 11.11	11.12 – 12.50	12.51 – 13.90

Temperature Coefficients

Pn	-0.46 %/K
Voc	-0.35 %/K
lsc	0.05 %/K

ITS Off-grid 80 – MonoUp

Mono 17 V - STC*

Pmax	Wp	70	80	90
Vmpp	V	17.85	17.90	18.00
Impp	А	3.95	4.50	5.00
Voc	V	21.15	21.30	21.75
lsc	А	4.40	4.90	5.50
η	%	9.73 – 11.11	11.12 – 12.50	12.51 – 13.90

Mono 34 V – STC *

Pmax	Wp	70	80	90
Vmpp	V	35.71	36.03	36.05
Impp	А	1.97	2.23	2.50
Voc	V	41.90	42.60	43.49
lsc	А	2.21	2.52	2.84
η	%	9.73 – 11.11	11.12 – 12.50	12.51 – 13.90

Temperature Coefficients

Pn	-0.50 %/K
Voc	-0.37 %/K
lsc	0.03 %/K

Both Module Types

Max. System Voltage	1000 V
IP protection level	IP 65
Module Technology	Glass-Foil-Laminate with aluminum frame
Module Design	Cover material: hightransparent solar glass (tempered), 3.2 mm Encapsulation: EVA-Solar Cells-EVA Back material
No. and Type of Solar Cells	36 pcs. ² / ₃ or 72 pcs. ¹ / ₃ crystalline Solar Cells, 104 x 156 mm or 52 x 156 mm, 180 μm ± 30 μm
Connection	Junction box without cables
Bypass-Diodes	2 pcs.
Dimensions (LxWxH):	1058 x 680 x 33.8 mm
Weight:	8 kg
Operating Temperature Range	-40 +80°C
Mechanical ratings	Suction pressure of 2400 Pa approved (Wind speed 130 km/h with safety factor 3), load of 5400 Pa approved
Compliant with	IEC 61215 IEC 61730
Measuring tolerances	Pmax @ STC \pm 5%, all other electric parameters \pm 10%

