

FOR A BRIGHTER FUTURE, GO GREEN GO SOLAR

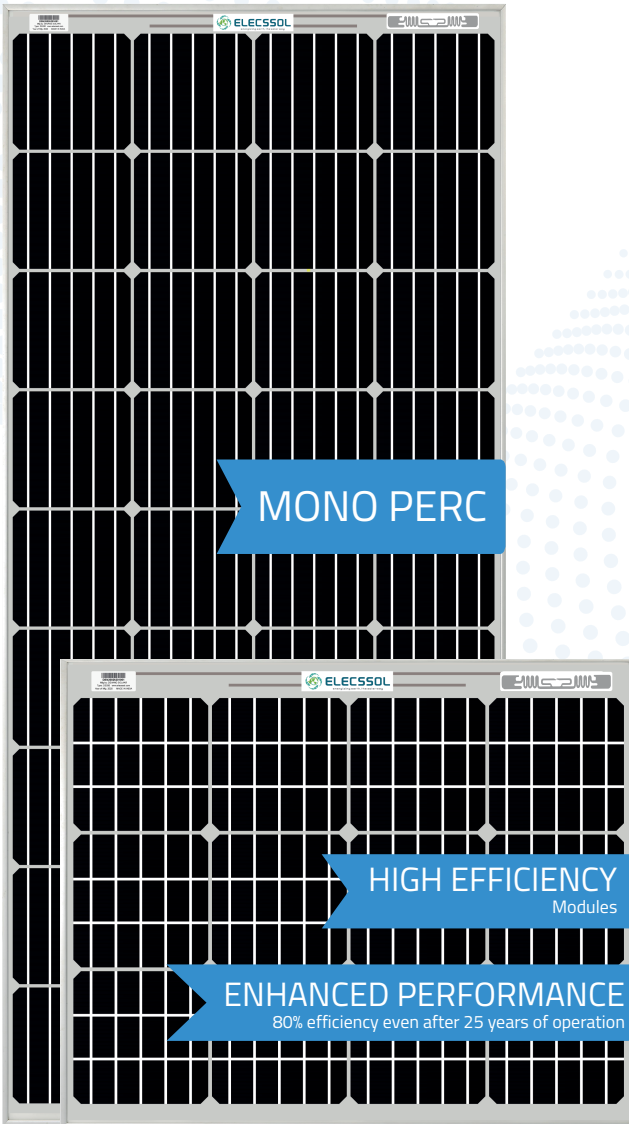
MONOCRYSTALLINE SOLAR PV MODULES



ELECSSL
energizing earth, the solar way

36 POWER OUTPUT RANGE
CELLS **40-190 W**

SALIENT FEATURES



HIGH POWER OUTPUT

ELECSSL PV modules are compact in size and deliver enhanced output & efficiency.



GLASS WITH ANTI REFLECTIVE COATING

Enhances energy production



LOW LIGHT PERFORMANCE

ELECSSL PV modules designs ensures excellent performance in low light condition



OUTSTANDING DURABILITY

ELECSSL PV modules can withstand 2400 Pa Wind Load , 5400 Pa Snow Load



POSITIVE POWER TOLERANCE

Positive power output tolerance guaranteed ensuring faster ROI



PID RESISTANT WITH LONG TERM RELIABILITY



MAXIMUM SYSTEM VOLTAGE INCREASED TO 1000 VDC

Certifications : IEC61215, IEC61730-1, IEC61701, ISO 9001, 14001, MNRE Approved



www.elecssl.com

TECHNICAL DATA

THIS DATASHEET IS APPLICABLE FOR 40-190W - 36CELLS



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Electrical Data - All Data Measured to STC

Module Type	DS40-M	DS45-M	DS50-M	DS60-M	DS75-M	DS95-M	DS115-M	DS170-M	DS180-M	DS190-M
Peak Power Watts (Pmax)	40	45	50	60	75	95	115	170	180	190
Maximum Power Voltage (Vmp)	19	19.5	19	19.01	19.8	20.23	19.93	19.35	19.5	19.99
Maximum Power Current (Imp)	2.11	2.31	2.64	3.2	3.79	4.7	5.8	8.79	9.24	9.51
Open-circuit Voltage (Voc)	23.5	23.8	23.5	23.76	23.75	23.75	23.52	23.6	23.79	24.45
Short-circuit Current (Isc)(A)	2.29	2.51	2.87	3.47	4.01	4.93	6.19	9.2	9.6	9.9
Module Efficiency STC (%)	14.49	16.3	14.88	17.86	18.19	18.67	18.29	17.21	18.22	19.24

Standard Test Conditions (STC): Temp: 25 °C, Irradiance : 1000 w/m² and Am : 1.5Am with clean modules

Temperature Characteristics (TC) and Permissible Operating Conditions

Specification	Data
Tc of Open Circuit Voltage (β)	-0.35 \pm 0.01% / °C
Tc of Short Circuit Current (α)	0.50 \pm 0.02% / °C
Tc Power (γ)	-0.38 %/°C
Maximum System Voltage	1000 V
NOCT	45°C \pm 2°C
Temperature Range	-40°C \pm 85 °C

Mechanical Data

Specification	Data
Cell Arrangement	36 Cells (9 x 4)
Dimensions : Length (mm)	415 505 620 765 945 1485
Dimensions : Width (mm)	665 665 665 665 665 665
Dimensions : Height (mm)	34 34 34 34 34 34
Weight (Kg) :	3.6 Kg 4.6 Kg 5.8 Kg 6.8 Kg 7.3 Kg 10.6 Kg
Mounting Hole Diameter & Hole to Hole Distance (mm)	6.9 & 200 6.9 & 220 6.9 & 300 6.9 & 500 6.9 & 600
No. of Bypass Diodes	2
Front Cover	3.2mm ARC Glass
Frame Material	Anodized Aluminium Alloy
Junction Box	IP 65 OR IP 67

Warranty

10 Years Product Workmanship Warranty
25 Years Linear Power Warranty. (Please refer to product warranty for details)

DEVANG SOLAAR

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