CW Defence

HONEYCOMB SOLAR PANEL

CWD-HFLEX-190 190Wp

CW DEFENCE Honeycomb Solar Panel, which contains ETFE polymer with high light transmittance, durable fiberglass, aluminum honeycomb core in its structure, is manufactured in international quality standards with 7-layer advanced lamination technology. The combination of ETFE, fiberglass and honeycomb sheet makes the panel much more durable, while the aluminum sheet provides natural convection. In the Honeycomb Solar Panel, which is ultra-light compared to standard solar panels, thanks to the bypass diodes used in each cell, even in shadow, permanent stain or pollutant elements, the effect is locally limited and minimum power loss is ensured, while this efficiency loss is confined to the panel base with the optimization feature. In addition, the connection components with military standards preferred in the panel provide durability in harsh environmental conditions.

Prism Surface
Maximum light absorption through prism surface

Excellent Light Transmit with ETFE
Higher light transmittance, corrosion resistance, operating temperature range

IBC Cell Technology
Flexible, durable and high efficient cell with back contact connection

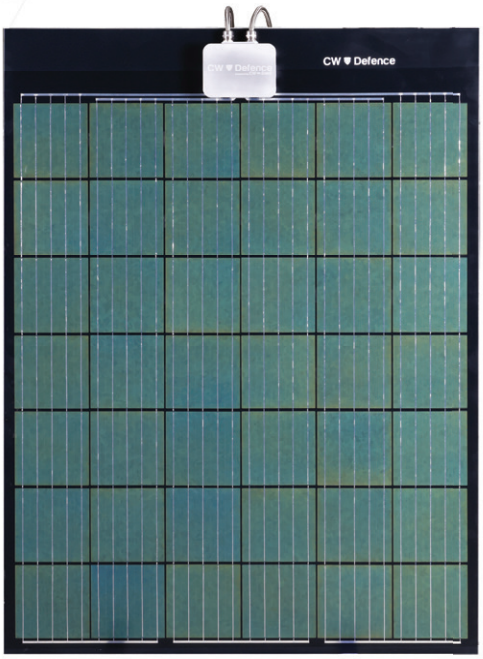
Ultra Lightweight
Ultrathin and durable design

Full Diode Connection
Local power drop effect at panel level

Optimizer Feature
Minimal array-based power loss in shadow, permanent stain or contaminants

Armored Cable
Connection terminals resistant to harsh environmental conditions

Aluminum Honeycomb
Cooling in Extremely Hot Conditions



IP67 Connector

Aluminum Honeycomb

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Model Type	CWD-HFLEX-190 190Wp
Peak Power (P_{max})	190 Wp
Power Tolerance [W]	0~+5
Maximum Power Voltage (V_{mp})	22.64
Maximum Power Current (I_{mp})	8.42
Open Circuit Voltage (V_{oc})	26.42
Short Circuit Current (I_{sc})	8.89
Temp. Coeff. of (P_{max})	-0.38%/°C
Temp. Coeff. of (V_{oc})	-0,33mV/°C
Temp. Coeff. of (I_{sc})	0.05mA/°C
Dimensions [mm]	1330x1006x13
Weight [kg]	7
Maximum System Voltage [V DC]	1500
Maximum Serial Fuse Current [A]	15
Protection Class	IP68

* The specifications are obtained under the standard test conditions: 1000W/m2 solar irradiance, 1.5 Air Mass and cell temperature of 25°C. Measurement uncertainty for all panels is 3%. The actual transactions will be subject to the contracts. These parameters are for reference only and it is not a part of the contracts. The technical specifications in this document may vary. For more information, refer to the "Installation Manual".
* CW DEFENCE reserves the right to change the specifications of the products without prior notice.
* CW DEFENCE products are project-based products and can realize special projects upon your requests.

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