

## FULL DIODE FLEXIBLE PANEL

### | CWD-FLEX-150 Wp

CW DEFENCE New Generation Flexible Panel, which contains ETFE polymer with high light transmittance, durable fiberglass and high efficiency IBC solar cell in its structure, is manufactured in international quality standards with 7-layer advanced lamination technology. The combination of ETFE and fiberglass sheet makes the panel much more durable. In the module, which perfectly adapts to any surface with its maximum flexing up to 30 degrees and light weight, thanks to the bypass diodes used in each cell, the effect is locally limited even in shadow, permanent stain or pollutant elements, ensuring minimum power loss, while this efficiency loss is trapped on the panel base with the optimization feature. The solar panel, which is resistant to harsh outdoor conditions, is equipped with military standard connection terminals.



#### 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



#### Flexible Design

Flexibility up to 30 degrees max



#### Ultra Lightweight

3mm thick ultrathin and durable design



#### IP68 Protection Class

Provides water resistance with IP68 Junction Box



#### 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

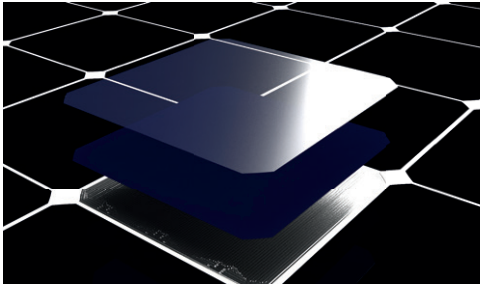
Connection terminals resistant to harsh environmental conditions



IP67 Connector



Optimizer Junction Box



IBC Solar cells, which are preferred in flexible panels, are a cell type built on a copper base. When Full Diode Panels are bent or left in a humid environment, they are more resistant to power losses due to breakage and corrosion than conventional solar panels. Full Diode Panels are one of the most important energy solutions for users thanks to the Bypass diodes and efficient cell architecture in low radiation and shade conditions.

## ELECTRICAL CHARACTERISTICS

Model Type	CWD-FLEX-150 150Wp
Peak Power (Pmax ) [Wp]	150
Module Efficiency [%]	17.5
Power Tolerance [W]	0~+5
Maximum Power Voltage (Vmp)[V]	25.78
Maximum Power Current (Imp)[A]	5.84
Open Circuit Voltage (Voc)[V]	29.93
Short Circuit Current (Isc ) [A]	6.15
Temp. Coeff. of (Pmax)	-0.29%/°C
Temp. Coeff. of (Voc)	-73.08 mV/°C
Temp. Coeff. of (Isc)	2.9mA/°C
Dimensions [mm]	1130x810x3
Weight [kg]	5
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/m<sup>2</sup> 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.