



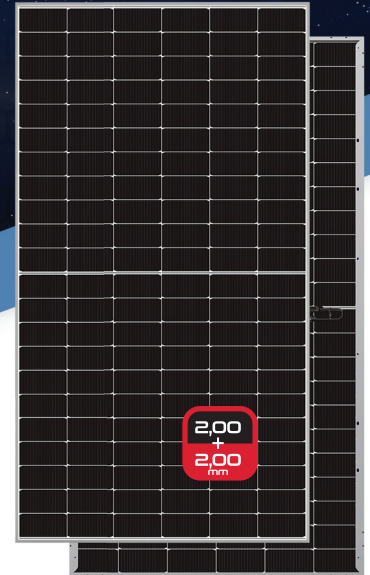
## DS-Falcon-705TC

### N-TOPCon

Bifacial Dual Glass Module





# 685-705W

**22.7%**  
Max. Efficiency

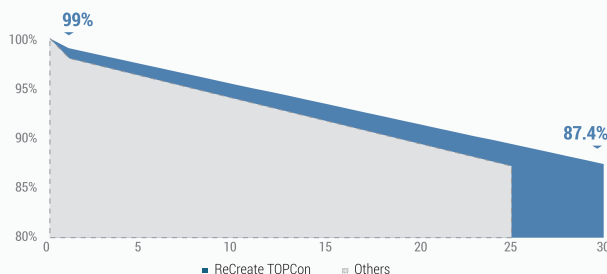


### TOPCon Technology

N-type solar cells represent a significant advancement in photovoltaic technology, offering several benefits over traditional P-type cells. Notably, N-type cells are less prone to light-induced degradation and have a higher tolerance to impurities, which results in better performance and a longer lifespan. These cells also typically exhibit higher efficiency rates, meaning they can convert more sunlight into electricity.

-  **Boosted Power Output**  
Advanced tech ensures higher power from every module.
-  **Reliable Performance**  
Proven durability for a long-lasting lifecycle.
-  **Extra Energy Yield**  
Low degradation and better low-light performance.
-  **Optimized ROI**  
Bifacial reduces BOS & LCOE, increasing returns.

#### LINEAR PERFORMANCE WARRANTY



First Year Degradation **1.00%**      Annual Degradation **0.40%**

#### CERTIFICATIONS AND WARRANTY

Certifications	IEC 61215, IEC 61730, IEC 61701: Salt mist corrosion test IEC 62716: Ammonia corrosion test, IEC 60068: Dust and Sand test
	ISO 9001:2015; Quality Management System ISO 14001:2015; Environment Management System ISO 45001:2018; Occupational Health and Safety Management Systems
Product Warranty	12 years Product Warranty
Peak Power Warranty	30 years linear warranty



**About ReCreate:** Founded in 2024 by Dean Solon, Founder of Create Energy, and Hamlet Tunyan, CEO of RECOM Technologies, ReCreate is set to transform the solar energy industry. Our Portland, Tennessee facility produces up to 5GW of solar modules and cells for North America and the EU. We are dedicated to delivering superior quality, American craftsmanship, and advanced technology for sustainable energy solutions.

## Electrical Characteristics (STC<sup>1</sup>-NMOT<sup>2</sup>)

Module Type	DS-Falcon-685TC		DS-Falcon-690TC		DS-Falcon-695TC		DS-Falcon-700TC		DS-Falcon-705TC	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	685	522	690	526	695	530	700	534	705	538
Open-circuit Voltage (Voc/V)	47.60	45.10	47.80	45.30	48.00	45.50	48.20	45.70	48.40	45.90
Maximum Power Voltage (Vmp/V)	39.90	37.20	40.10	37.40	40.30	37.60	40.50	37.80	40.70	38.00
Short-circuit Current (Isc/A)	18.20	14.68	18.24	14.72	18.28	14.76	18.32	14.80	18.36	14.84
Maximum Power Current (Imp/A)	17.18	14.04	17.21	14.07	17.25	14.10	17.29	14.13	17.33	14.16
Module Efficiency (%)	<b>22.05</b>		<b>22.21</b>		<b>22.37</b>		<b>22.53</b>		<b>22.70</b>	

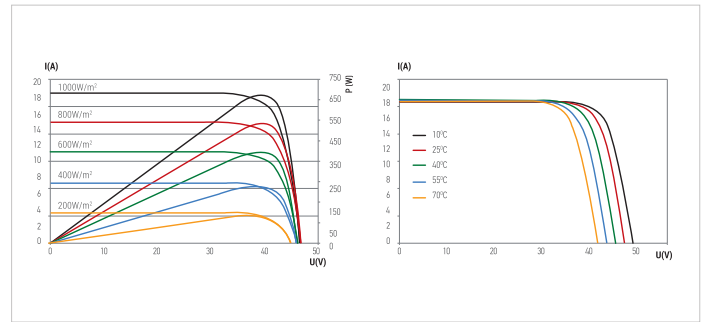
<sup>1</sup> STC: Irradiation 1000 W/m<sup>2</sup>, Cell temperature 20°C, AM = 1.5

<sup>2</sup> NMOT: Irradiation 800 W/m<sup>2</sup>, Ambient temperature 20°C, AM = 1.5

## Bifacial Output - Rearside power gain (695W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	730	765	799	834	869
Open-circuit Voltage (Voc/V)	48.00	48.00	48.00	48.10	48.10
Maximum Power Voltage (Vmp/V)	40.30	40.30	40.30	40.40	40.40
Short-circuit Current (Isc/A)	18.84	19.56	20.25	20.98	21.69
Maximum Power Current (Imp/A)	18.12	18.99	19.83	20.65	21.51

## Current-Voltage Curve (695W)



## Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	45 ± 2°C
Temperature Coefficient of Pmax (%/°C)	-0.290% / °C
Temperature Coefficient of Voc (%/°C)	-0.260% / °C
Temperature Coefficient of Isc (%/°C)	+0.045% / °C

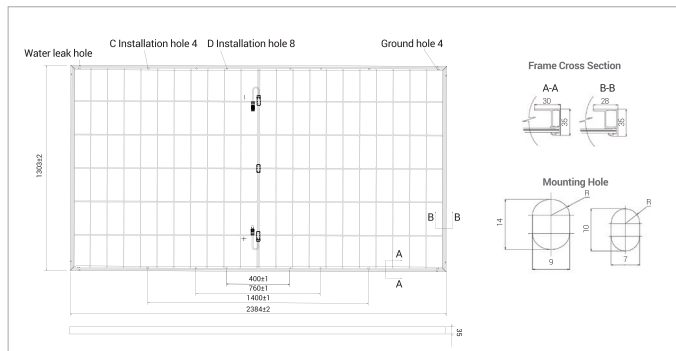
## Packing

Container	40'HQ
Pieces per Pallet	33
Pieces per Container	594

## Mechanical Characteristics

Dimensions (mm)	2384 x 1303 x 35
Weight (kg)	37.5 kg
Cell Type	N-TOPCon, 132 (6x22)
Front Glass	2.0mm coated semi-tempered glass
Back Glass	2.0mm glazed semi-tempered glass
Frame	Anodized Aluminium Alloy
Cables	4mm <sup>2</sup> (IEC), 12 AWG (UL) 300mm (including connector) or can be customized
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EV02

## Dimensions



## Operating Conditions

Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	1500 DC (IEC)
Maximum Series Fuse rating (A)	30
Power Performance Tolerance (%)	0 / +3
Bifaciality	80±5%
Mechanical load front rear	5400 Pa
Mechanical load back rear	2400 Pa

Specifications included in this data sheet are subject to change without notice. ReCreate reserves the right to final interpretation.