

CENTAUR 2LT The Leading Tandem Solar Module

CENTAUR is powered by Oxford PV's proprietary perovskite-on-silicon tandem HyPERcell technology, a first-of-its-kind solar cell architecture, delivering high efficiency and reliable long-term performance for utility-scale applications.



Perovskite-Silicon
Solar Module



540 Watt



10 Year
Lifetime



25% Module
Efficiency

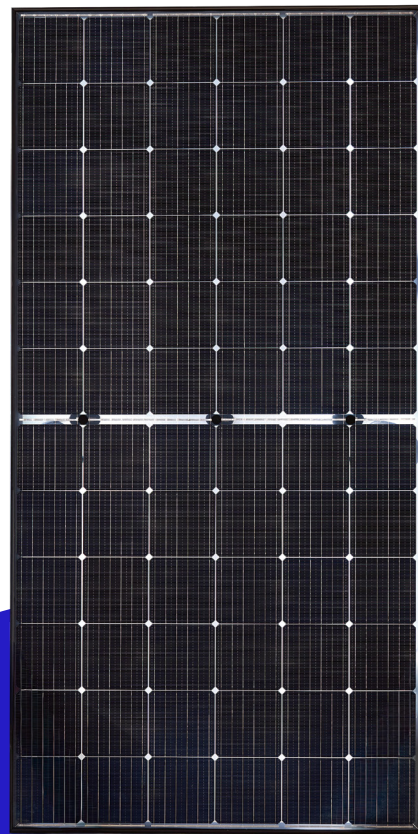
Maximised Energy Output

- › High module efficiency enabled by tandem architecture
- › Designed to deliver at least 20% more power*
- › Bifacial module design for enhanced energy yield

Engineered for Durability

- › Builds on established silicon PV architecture
- › Designed for long-term field performance
- › Robust, glass-glass module
- › Rigorously tested for safety and reliability in accordance with international standards and stringent internal testing protocols.

*Compared to conventional crystalline silicon PV



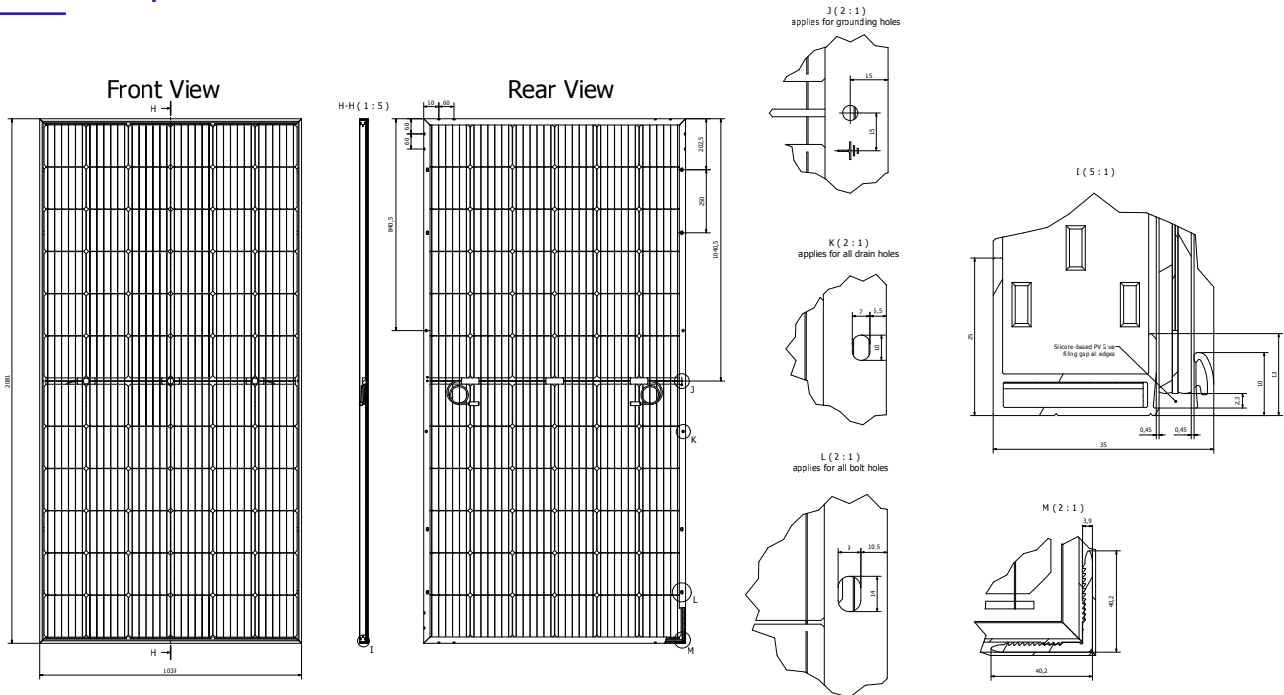
Learn more about Oxford PV's
tandem solar technology at
oxfordpv.com



CENTAUR 2LT

Electrical Specifications					Tolerances
Ratings at Standard Test Conditions (Irradiance 1000W/m ² , cell temperature 25°C, air mass AM1.5)					
Power – P _{max} (W)	510	520	530	540	0, +10
Voltage at P _{max} , V _{mp} (V)	56.3	56.9	57.4	57.9	± 0.5
Current at P _{max} , I _{mp} (A)	9.08	9.16	9.24	9.33	± 0.2
Open Circuit Voltage V _{oc} (V)	67.1	67.4	68.0	68.6	± 0.6
Short Circuit Current – I _{sc} (A)	9.67	9.68	9.69	9.70	± 0.2
Efficiency (%)	23.6	24.1	24.5	25	0%, +0.5%
Electrical specifications with additional 100W/m ² rear irradiance					Tolerances
Power – P _{max} (W)	553	564	575	586	± 20
Voltage at P _{max} , V _{mp} (V)	56.3	56.9	57.4	57.9	± 0.5
Current at P _{max} , I _{mp} (A)	9.85	9.94	10.03	10.12	± 0.5
Open Circuit Voltage V _{oc} (V)	67.1	67.4	68.0	68.6	± 0.6
Short Circuit Current – I _{sc} (A)	10.49	10.50	10.51	10.52	± 0.5
Bifaciality (%)	TBC	TBC	TBC	TBC	n/a

Mechanical Specifications



Mechanical Description	
Module Dimensions (mm)	2081 × 1039 × 35
Number of cells	72 cells
Weight	28.0 kg
Glass thickness front/rear (mm)	2 / 2
Frame material	Anodised aluminium
Connector type	MC4 Evo 2
Cable length	1000 mm
Max surface load (Pa)	± 1600
Hail impact (mm)	25

Temperature Ratings	
Operating temp. range (°C)	-40 to +70
Temperature coefficient P _{max} (%/°C)	-0.21 ± 0.03
Temperature coefficient V _{oc} (%/°C)	-0.19 ± 0.03
Temperature coefficient I _{sc} (%/°C)	+0.04 ± 0.03

Certifications & Standards
Certified to IEC 61730 standards
ISO 50001: Energy Management System
ISO 14001: Environmental Management System
ISO 9001: Quality Management System

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