

COTECH SOLAR · Portable

CSPT-180~200

Foldable Portable Solar Panel · mono ETFE · for power stations

200_{Wp}

MAXIMUM
POWER OUTPUT

17.5%

MAXIMUM
EFFICIENCY

Foldable & portable

- Folds compact with handle and kickstand
- Adjustable angle to the sun for maximum harvest
- Grab-and-go for off-grid and backup power

Universal fast charging

- Mono ETFE cells reach up to 17.5% efficiency
- DC / Anderson / XT60 plus USB outputs
- For power stations, RV and devices

Rugged & weatherproof

- IP67 ETFE front surface
- Reinforced oxford-cloth backing
- Built for camping and emergency power

Key specifications

Maximum power	180 – 200 Wp
Module efficiency	up to 17.5 %
Open-circuit voltage	24.00 – 25.00 V
Cell type	Mono-crystalline ETFE, foldable
No. of cells	40 mono cells
Dimensions (mm)	2120 × 540 × 25
Weight	7.5 kg
Bifaciality	Mono-facial



Foldable

travel & off-grid

Plug & Play

DC / USB outputs

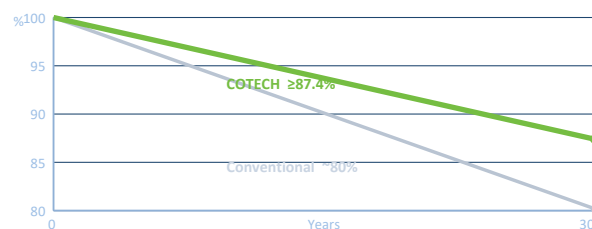
High-Eff Cell

monocrystalline

Rugged

IP-rated & durable

PERFORMANCE WARRANTY



15-yr product

30-yr power

QUALITY ASSURANCE



EL & flash tested

100% inspected, binned & traceable

APPLICATIONS



Residential



C & I



Utility



Off-grid

QUALITY SYSTEM

ISO 9001

ISO 14001

ISO 45001

CERTIFICATION & QUALIFICATION

IEC 61215

IEC 61730

IEC 61701

IEC 62716

UL 61730

CE

TÜV

ISO 9001/14001/45001

TESTED

✓ Damp heat

✓ Thermal cycling

✓ Humidity-freeze

✓ PID

✓ Salt mist

✓ Ammonia

✓ Mechanical load

✓ Hail

Electrical characteristics at STC

Parameter	180	185	190	195	200
Maximum power P _{max} (W)	180	185	190	195	200
Open-circuit voltage Voc (V)	24.00	24.25	24.50	24.75	25.00
Short-circuit current Isc (A)	9.60	9.68	9.75	9.82	9.90
Voltage at P _{max} V _{mp} (V)	20.00	20.20	20.40	20.60	20.80
Current at P _{max} Imp (A)	9.00	9.16	9.31	9.47	9.62
Module efficiency η_m (%)	15.72	16.16	16.60	17.03	17.47

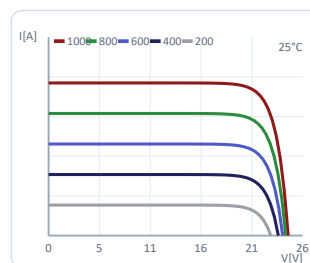
Electrical characteristics at NMOT

Parameter	180	185	190	195	200
Maximum power P _{max} (W)	135.9	139.7	143.4	147.2	151.0
Open-circuit voltage Voc (V)	22.37	22.60	22.83	23.07	23.30
Short-circuit current Isc (A)	7.70	7.76	7.82	7.88	7.94
Voltage at P _{max} V _{mp} (V)	18.56	18.75	18.93	19.12	19.30
Current at P _{max} Imp (A)	7.14	7.26	7.38	7.51	7.63

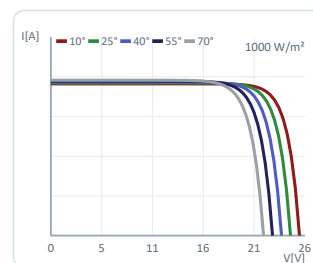
STC 1000 W/m² · 25 °C · AM1.5 — NMOT 800 W/m² · 20 °C · AM1.5 · 1 m/s — Power tolerance 0 ~ +3 %

Parameter	Value
Solar cell	Mono-crystalline ETFE, foldable
Cell size	182 × 91 mm
No. of cells	40 mono cells
Busbar	0BB · SMBB
Dimensions	2120 × 540 × 25 mm
Weight	7.5 kg
Front / back glass	ETFE front, oxford-cloth backing
Encapsulant	POE
Frame	Foldable, kickstand & handle, 25 mm
Junction box	IP67, integrated
Connector	DC / Anderson / XT60 · USB
Output cable	3 m, integrated
Parameter	Value
NMOT	44 ± 2 °C
Temp. coeff. of P _{max}	-0.35 %/°C
Temp. coeff. of Voc	-0.30 %/°C
Temp. coeff. of Isc	+0.05 %/°C
Operating temperature	-40 °C ~ +85 °C

I-V curve · irradiance



I-V curve · temperature



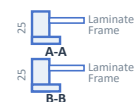
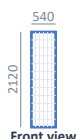
Low-light performance — relative efficiency

Irradiance (W/m ²)	1000	600	400	200
Relative efficiency (%)	100.0	100.4	100.1	98.3

Maximum ratings

Parameter	Value
Max system voltage	50 V DC
Max series fuse	15 A
Max test load (front / back)	Foldable (n/a)
Application / safety class	Class A / Class II
Fire rating	Class C

Mechanical drawing (mm)

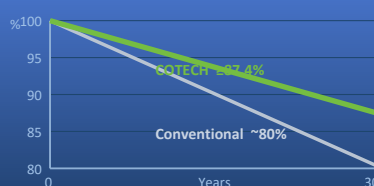


Linear power warranty

15 yr product warranty

30 yr linear power output warranty

1st-year ≤1% · annual ≤0.4% · ≥87.4% at year 30



Packaging

Pieces / pallet	-
Pieces / 20'GP	-
Pieces / 40'HC	-
Pallet size	Folded 540 × 540 × 70 mm