

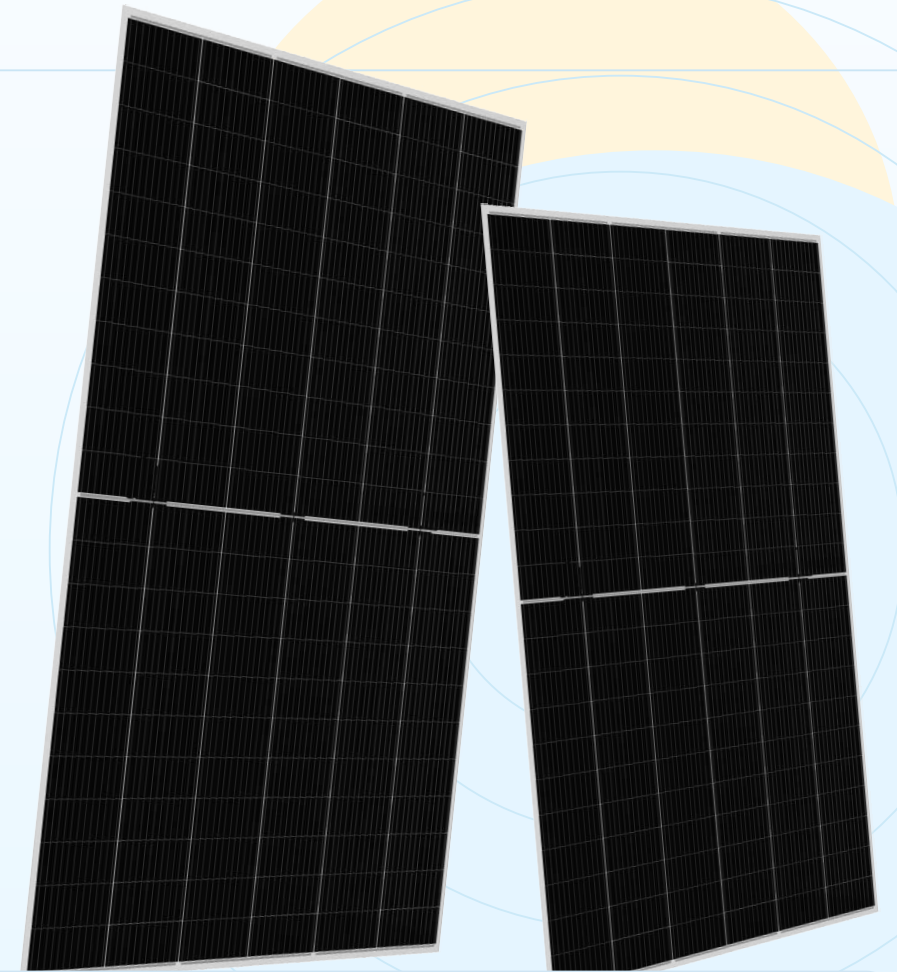
TOPCon N-Type Solar Panels

High-efficiency monofacial, bifacial and glass-glass module families from 420 Wp to 755 Wp.

13 PRODUCT FAMILIES

UP TO 24.31%

1500 V DC



One catalogue. Thirteen focused module families.

Product ranges are consolidated by module family. Every power class remains visible in one electrical table, avoiding repetitive pages while preserving engineering detail.

420-755 Wp
POWER RANGE

24.31%
MAX. MODULE EFFICIENCY

1500 V DC
MAX. SYSTEM VOLTAGE

30 years
PERFORMANCE WARRANTY

510-755 Wp

M12 HIGH-POWER

132-cell rectangular and large-format modules

132TNB12R · 132TN12R · 108TNB12R · 132TNB12

590-620 Wp

M10 COMMERCIAL

144-cell mainstream utility and C&I formats

144TNB10 · 144TN10 · 144TNFB10

420-455 Wp

M10 COMPACT

108-cell residential and distributed-generation formats

108TNB10 · 108TN10

Performance engineered for demanding solar assets.

Across the range, official product pages highlight high conversion efficiency, strong low-irradiance response, positive power tolerance and robust mechanical loading.

01 High conversion efficiency

Up to 24.31% module efficiency in the listed high-power family.

02 Positive power tolerance

0 to +5 W tolerance supports predictable delivered nameplate power.

03 Low-irradiance response

Designed for dependable output in morning, cloudy and weak-light conditions.

04 Mechanical durability

Up to 2400 Pa wind load and 5400 Pa snow load in linked datasheets.

05 Bifacial options

Rear-side generation options with documented bifaciality and gain tables.

06 Glass-glass options

G2G families use dual-glass construction for long-life applications.

Technical values are family-specific. System design must use the current official datasheet and installation manual for the selected model.

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	620 Wp	625 Wp	630 Wp	635 Wp	640 Wp	645 Wp	650 Wp	655 Wp
Peak power / W	620	625	630	635	640	645	650	655
Module efficiency / %	22.95	23.14	23.32	23.51	23.69	23.88	24.06	24.25
Vmp / V	41.02	41.22	41.42	41.62	41.82	42.02	42.22	42.42
Imp / A	15.12	15.17	15.22	15.26	15.31	15.35	15.40	15.45
Voc / V	48.99	49.19	49.39	49.59	49.79	49.99	50.19	50.39
Isc / A	16.02	16.08	16.14	16.20	16.26	16.32	16.38	16.44

BIFACIAL

RECTANGULAR M12

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

24.25%

MODULE FORMAT

2382 x 1134 x 35 mm

MODULE WEIGHT

31.1 kg

MAX. SERIES FUSE

30 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.041 / -0.250 / -0.290 %/C

PACKING

40'HC · 31/pallet · 620/container

COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

WARRANTY

12-year product · 30-year performance

[Official datasheet](#)

620-655 Wp

M12 / 132

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	620 Wp	625 Wp	630 Wp	635 Wp	640 Wp	645 Wp	650 Wp	655 Wp
Peak power / W	620	625	630	635	640	645	650	655
Module efficiency / %	22.95	23.14	23.32	23.51	23.69	23.88	24.06	24.25
Vmp / V	41.02	41.22	41.42	41.62	41.82	42.02	42.22	42.42
Imp / A	15.12	15.17	15.22	15.26	15.31	15.35	15.40	15.45
Voc / V	48.99	49.19	49.39	49.59	49.79	49.99	50.19	50.39
Isc / A	16.02	16.08	16.14	16.20	16.26	16.32	16.38	16.44

G2G

BIFACIAL

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

24.25%

MODULE FORMAT

2382 x 1134 x 35 mm

MODULE WEIGHT

35.95 kg

MAX. SERIES FUSE

30 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.041 / -0.250 / -0.290 %/C

PACKING

40'HC · 31/pallet · 620/container

COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

WARRANTY

12-year product · 30-year performance

[Official datasheet](#)

620-655 Wp

M12 / 132

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	620 Wp	625 Wp	630 Wp	635 Wp	640 Wp	645 Wp	650 Wp	655 Wp
Peak power / W	620	625	630	635	640	645	650	655
Module efficiency / %	22.93	23.12	23.30	23.49	23.67	23.86	24.04	24.23
Vmp / V	41.02	41.22	41.42	41.62	41.82	42.02	42.22	42.42
Imp / A	15.12	15.17	15.22	15.26	15.31	15.35	15.40	15.45
Voc / V	48.99	49.19	49.39	49.59	49.79	49.99	50.19	50.39
Isc / A	16.02	16.08	16.14	16.20	16.26	16.32	16.38	16.44

MONOFACIAL

RECTANGULAR M12

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

24.23%

MODULE FORMAT

2382 x 1134 x 35 mm

MODULE WEIGHT

31.1 kg

MAX. SERIES FUSE

30 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.041 / -0.250 / -0.290 %/C

PACKING

40'HC · 31/pallet · 620/container

COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

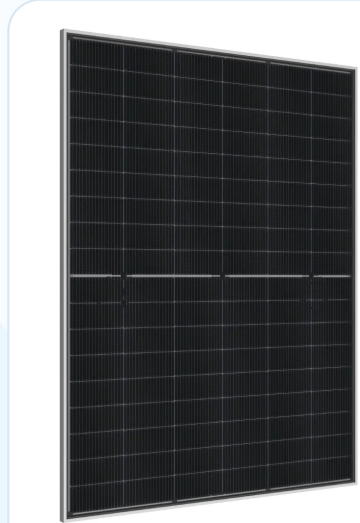
WARRANTY

30-year performance

[Official datasheet](#)

620-655 Wp

M12 / 132



510-535 Wp

M12 / 108

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 °C

MODEL	510 Wp	515 Wp	520 Wp	525 Wp	530 Wp	535 Wp
Peak power / W	510	515	520	525	530	535
Module efficiency / %	22.89	23.12	23.34	23.56	23.78	24.00
V _{mp} / V	33.75	33.95	34.15	34.35	34.55	34.75
I _{mp} / A	15.12	15.17	15.23	15.29	15.35	15.40
V _{oc} / V	39.95	40.15	40.35	40.55	40.75	40.95
I _{sc} / A	15.95	16.01	16.07	16.13	16.19	16.25

G2G

COMPACT M12

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

24.00%

MODULE FORMAT

1965 x 1134 x 30 mm

MODULE WEIGHT

27.80 kg

MAX. SERIES FUSE

25 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. I_{SC} / V_{OC} / P_{MAX}

+0.041 / -0.250 / -0.290 %/C

PACKING

40'HC · 36/pallet · 720/container

COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

WARRANTY

12-year product · 30-year performance

[Official datasheet](#)

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	715 Wp	720 Wp	725 Wp	730 Wp	735 Wp	740 Wp	745 Wp	750 Wp	755 Wp
Peak power / W	715	720	725	730	735	740	745	750	755
Module efficiency / %	23.02	23.18	23.34	23.50	23.66	23.82	23.98	24.14	24.31
Vmp / V	40.30	40.50	40.70	40.90	41.10	41.30	41.50	41.70	41.90
Imp / A	17.75	17.78	17.82	17.85	17.89	17.92	17.96	17.99	18.02
Voc / V	48.40	48.60	48.80	49.00	49.20	49.40	49.60	49.80	50.00
Isc / A	18.62	18.67	18.72	18.76	18.80	18.85	18.89	18.95	18.99

HIGH POWER

BIFACIAL

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

24.31%

MODULE FORMAT

2384 x 1303 x 35 mm

MODULE WEIGHT

34.5 kg

MAX. SERIES FUSE

25 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.040 / -0.260 / -0.320 %/C

PACKING

40'GP · 31/pallet · 527/container

COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

WARRANTY

12-year product · 30-year performance

[Official datasheet](#)

715-755 Wp

M12 / 132

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	715 Wp	720 Wp	725 Wp	730 Wp	735 Wp	740 Wp	745 Wp	750 Wp	755 Wp
Peak power / W	715	720	725	730	735	740	745	750	755
Module efficiency / %	23.02	23.18	23.34	23.50	23.66	23.82	23.98	24.14	24.31
Vmp / V	40.30	40.50	40.70	40.90	41.10	41.30	41.50	41.70	41.90
Imp / A	17.75	17.78	17.82	17.85	17.89	17.92	17.96	17.99	18.02
Voc / V	48.40	48.60	48.80	49.00	49.20	49.40	49.60	49.80	50.00
Isc / A	18.62	18.67	18.72	18.76	18.80	18.85	18.89	18.95	18.99

HIGH POWER

G2G

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

24.31%

MODULE FORMAT

2384 x 1303 x 35 mm

MODULE WEIGHT

34.5 kg

MAX. SERIES FUSE

25 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.040 / -0.260 / -0.320 %/C

PACKING

40'GP · 31/pallet · 527/container

COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

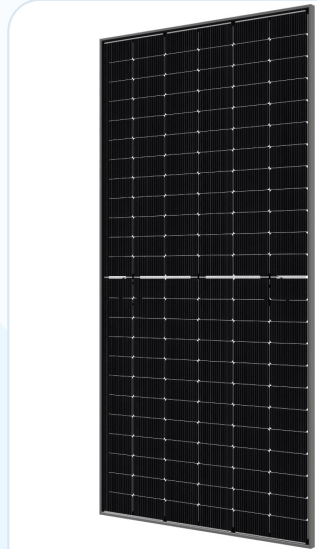
WARRANTY

12-year product · 30-year performance

[Official datasheet](#)

715-755 Wp

M12 / 132



590-620 Wp

M10 / 144

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	590 Wp	595 Wp	600 Wp	605 Wp	610 Wp	615 Wp	620 Wp
Peak power / W	590	595	600	605	610	615	620
Module efficiency / %	22.84	23.03	23.23	23.42	23.61	23.81	24.00
Vmp / V	43.35	43.55	43.75	43.95	44.15	44.35	44.55
Imp / A	13.62	13.67	13.72	13.77	13.82	13.87	13.92
Voc / V	51.98	52.18	52.38	52.58	52.78	52.98	53.18
Isc / A	14.30	14.36	14.42	14.48	14.54	14.60	14.66

G2G

BIFACIAL

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

24.00%

MODULE FORMAT

2278 x 1134 x 35 mm

MODULE WEIGHT

33.0 kg

MAX. SERIES FUSE

25 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.040 / -0.260 / -0.300 %/C

PACKING

40'GP · 31/pallet · 620/container

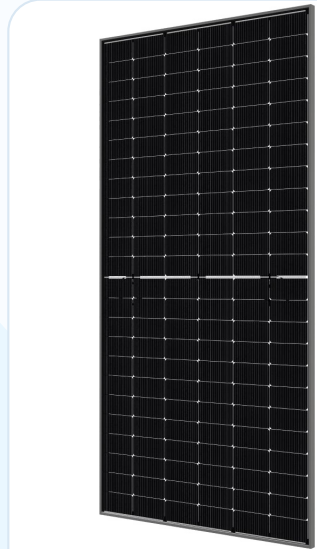
COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

WARRANTY

12-year product · 30-year performance

[Official datasheet](#)



590-620 Wp

M10 / 144

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	590 Wp	595 Wp	600 Wp	605 Wp	610 Wp	615 Wp	620 Wp
Peak power / W	590	595	600	605	610	615	620
Module efficiency / %	22.84	23.03	23.23	23.42	23.61	23.81	24.00
Vmp / V	43.35	43.55	43.75	43.95	44.15	44.35	44.55
Imp / A	13.62	13.67	13.72	13.77	13.82	13.87	13.92
Voc / V	51.98	52.18	52.38	52.58	52.78	52.98	53.18
Isc / A	14.30	14.36	14.42	14.48	14.54	14.60	14.66

BIFACIAL

M10

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

24.00%

MODULE FORMAT

2278 x 1134 x 35 mm

MODULE WEIGHT

29.0 kg

MAX. SERIES FUSE

30 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.040 / -0.260 / -0.300 %/C

PACKING

40'GP · 31/pallet · 620/container

COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

WARRANTY

12-year product · 30-year performance

[Official datasheet](#)

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	590 Wp	595 Wp	600 Wp	605 Wp	610 Wp	615 Wp	620 Wp
Peak power / W	590	595	600	605	610	615	620
Module efficiency / %	22.84	23.03	23.23	23.42	23.61	23.81	24.00
Vmp / V	43.35	43.55	43.75	43.95	44.15	44.35	44.55
Imp / A	13.62	13.67	13.72	13.77	13.82	13.87	13.92
Voc / V	51.98	52.18	52.38	52.58	52.78	52.98	53.18
Isc / A	14.30	14.36	14.42	14.48	14.54	14.60	14.66

MONOFACIAL

M10

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

24.00%

MODULE FORMAT

2278 x 1134 x 35 mm

MODULE WEIGHT

29.0 kg

MAX. SERIES FUSE

30 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.040 / -0.260 / -0.300 %/C

PACKING

40'GP · 31/pallet · 620/container

COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

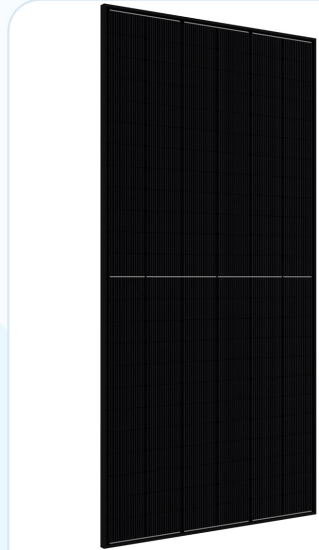
WARRANTY

12-year product · 30-year performance

[Official datasheet](#)

590-620 Wp

M10 / 144



590-620 Wp

M10 / 144

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	590 Wp	595 Wp	600 Wp	605 Wp	610 Wp	615 Wp	620 Wp
Peak power / W	590	595	600	605	610	615	620
Module efficiency / %	22.84	23.03	23.23	23.42	23.61	23.81	24.00
Vmp / V	43.35	43.55	43.75	43.95	44.15	44.35	44.55
Imp / A	13.62	13.67	13.72	13.77	13.82	13.87	13.92
Voc / V	51.98	52.18	52.38	52.58	52.78	52.98	53.18
Isc / A	14.30	14.36	14.42	14.48	14.54	14.60	14.66

BLACK SERIES

MONOFACIAL

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

24.00%

MODULE FORMAT

2278 x 1134 x 35 mm

MODULE WEIGHT

29.0 kg

MAX. SERIES FUSE

30 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.040 / -0.260 / -0.300 %/C

PACKING

40'GP · 31/pallet · 620/container

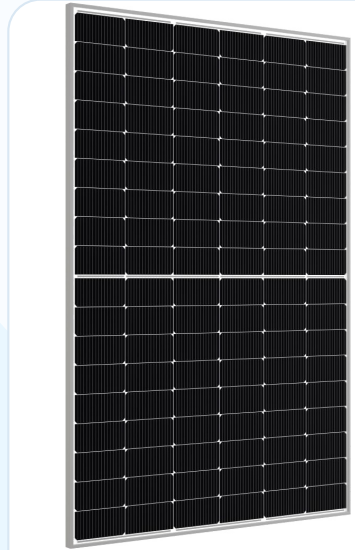
COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

WARRANTY

12-year product · 30-year performance

[Official datasheet](#)



420-450 Wp

M10 / 108

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	420 Wp	425 Wp	430 Wp	435 Wp	440 Wp	445 Wp	450 Wp
Peak power / W	420	425	430	435	440	445	450
Module efficiency / %	21.51	21.76	22.02	22.28	22.53	22.79	23.04
Vmp / V	31.94	32.14	32.34	32.54	32.74	32.94	33.14
Imp / A	13.15	13.23	13.30	13.37	13.44	13.51	13.58
Voc / V	38.11	38.31	38.51	38.71	38.91	39.11	39.31
Isc / A	13.95	14.03	14.10	14.17	14.24	14.31	14.38

COMPACT

MONOFACIAL

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

23.04%

MODULE FORMAT

1722 x 1134 x 30 mm

MODULE WEIGHT

21.45 kg

MAX. SERIES FUSE

25 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.040 / -0.260 / -0.300 %/C

PACKING

40'HC · 35/pallet · 910/container

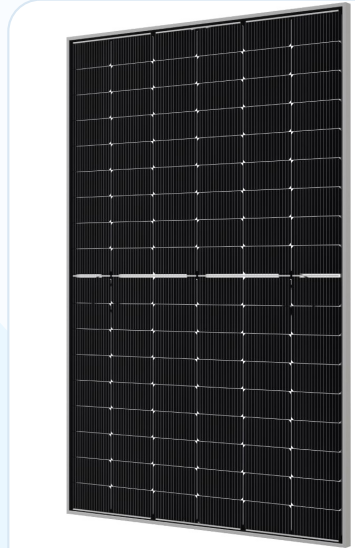
COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

WARRANTY

12-year product · 30-year performance

[Official datasheet](#)



420-450 Wp

M10 / 108

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	420 Wp	425 Wp	430 Wp	435 Wp	440 Wp	445 Wp	450 Wp
Peak power / W	420	425	430	435	440	445	450
Module efficiency / %	21.51	21.76	22.02	22.28	22.53	22.79	23.04
Vmp / V	31.94	32.14	32.34	32.54	32.74	32.94	33.14
Imp / A	13.15	13.23	13.30	13.37	13.44	13.51	13.58
Voc / V	38.11	38.31	38.51	38.71	38.91	39.11	39.31
Isc / A	13.95	14.03	14.10	14.17	14.24	14.31	14.38

G2G

COMPACT

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

23.04%

MODULE FORMAT

1722 x 1134 x 30 mm

MODULE WEIGHT

25.0 kg

MAX. SERIES FUSE

25 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.040 / -0.260 / -0.300 %/C

PACKING

40'HC · 35/pallet · 910/container

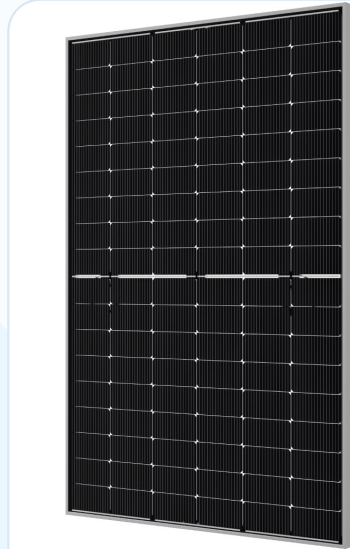
COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

WARRANTY

12-year product · 30-year performance

[Official datasheet](#)



420-455 Wp

M10 / 108

ELECTRICAL CHARACTERISTICS · STC

1000 W/m² · AM 1.5 · cell temperature 25 C

MODEL	420 Wp	425 Wp	430 Wp	435 Wp	440 Wp	445 Wp	450 Wp	455 Wp
Peak power / W	420	425	430	435	440	445	450	455
Module efficiency / %	21.51	21.76	22.02	22.28	22.53	22.79	23.04	23.30
Vmp / V	31.94	32.14	32.34	32.54	32.74	32.94	33.14	33.34
Imp / A	13.15	13.23	13.30	13.37	13.44	13.51	13.58	13.65
Voc / V	38.11	38.31	38.51	38.71	38.91	39.11	39.31	39.51
Isc / A	13.95	14.03	14.10	14.17	14.24	14.31	14.38	14.45

BIFACIAL

COMPACT

0 TO +5 W

1500 V DC

MAX. EFFICIENCY

23.30%

MODULE FORMAT

1722 x 1134 x 30 mm

MODULE WEIGHT

21.45 kg

MAX. SERIES FUSE

25 A

WIND / SNOW LOAD

2400 / 5400 Pa

JUNCTION BOX

IP68

TEMP. COEFF. ISC / VOC / P_{MAX}

+0.040 / -0.260 / -0.300 %/C

PACKING

40'HC · 35/pallet · 910/container

COMPLIANCE

IEC 61215 / IEC 61730 · CE documents · PID · salt mist · ammonia · dust & sand · family scope applies

WARRANTY

Product warranty per linked document · 30-year performance

[Official datasheet](#)

Choose the format around project priorities.

The matrix is a portfolio-navigation aid, not a system-design substitute. Final selection must consider string voltage, inverter limits, structural loads, logistics and local certification requirements.

Family	Power	Cells	Construction	Max eff.	Format	Typical focus
132TNB12	715-755 Wp	132	Bifacial high-power TOPCon	24.31%	2384 x 1303 x 35	Maximum nameplate power
132TNB12R	620-655 Wp	132	Bifacial TOPCon	24.25%	2382 x 1134 x 35	High efficiency / C&I
108TNB12R G2G	510-535 Wp	108	Bifacial glass-glass TOPCon	24.00%	1965 x 1134 x 30	Compact M12 bifacial
144TNB10 G2G	590-620 Wp	144	Bifacial glass-glass TOPCon	24.00%	2278 x 1134 x 35	Mainstream bifacial G2G
144TNFB10	590-620 Wp	144	Black Series TOPCon	24.00%	2278 x 1134 x 35	Aesthetic black series
108TN10	420-450 Wp	108	Compact monofacial TOPCon	23.04%	1722 x 1134 x 30	Compact monofacial
108TNB10 G2G	420-450 Wp	108	Compact bifacial glass-glass TOPCon	23.04%	1722 x 1134 x 30	Compact bifacial G2G

ENGINEERING CHECKPOINT

Confirm Voc at minimum site temperature, MPPT current compatibility, maximum series fuse rating, mounting-zone loads and certificate applicability before quotation approval.

Documents listed across the official TOPCon product pages.

Availability and exact model scope vary by family. Request the current certificate file and verify the model list before tender submission or shipment.

IEC 61215

Design qualification & type approval

IEC 61730

Photovoltaic module safety qualification

IEC 63209-1

Extended-stress testing

IEC 62804

Potential-induced degradation (PID)

IEC 61701

Salt-mist / salt-fog corrosion

IEC 62716

Ammonia corrosion resistance

IEC 60068

Dust and sand environmental testing

UL / ETL

US-market safety certification references

VDE / TÜV SÜD

Independent certification references

TÜV NORD / SGS

IEC 61215 & IEC 61730 certificates

CE Documents

CW Enerji CE Certificate 1 and 2

TSE CW Enerji

Turkish Standards documentation

Also listed: photovoltaic panel warranty certificate and product-family technical datasheets.

Data integrity, warranty and logistics.

01 STANDARD TEST CONDITIONS

Electrical ratings are stated at 1000 W/m² irradiance, AM 1.5 and 25 C cell temperature. Measurement uncertainty and document version vary by linked datasheet.

02 DESIGN RESPONSIBILITY

The catalogue supports product screening. Final string sizing, conductor protection, mounting design and local-code compliance remain project-specific engineering tasks.

03 WARRANTY

Most listed families state 12-year product and 30-year performance coverage. Always confirm the active warranty document for the exact model and sales contract.

04 PACKING

Packing counts reproduce the linked technical documents. Container type differs by family (40'GP or 40'HC) and should be reconfirmed before proforma invoice.

SOURCE

CW Enerji TOPCon N-Type Solar Panels · official product pages and linked technical documents · accessed 14 Sep 2026

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