

SunCrown Black™ 515-540

515-540 W N-Type ABC back-contact all-black module

ALL-BLACK · DUAL GLASS

FULL-BLACK FINISH. 25-YEAR PRODUCT WARRANTY.

Premium all-black module supplied, installed and supported by Lewis Green Energy. Final specification depends on the selected model and system design.



540 W

Peak rated output

24.4%

Peak module efficiency

25 years

Product warranty

ELECTRICAL SPECIFICATIONS (STC)

Module type	515 W	520 W	525 W	530 W	535 W	540 W
Maximum power – P _{max} [Wp]	515	520	525	530	535	540
Open-circuit voltage – V _{oc} [V]	45.10	45.20	45.30	45.40	45.50	45.60
Maximum power voltage – V _{mp} [V]	37.90	38.00	38.10	38.20	38.30	38.40
Short-circuit current – I _{sc} [A]	14.66	14.69	14.72	14.76	14.80	14.84
Maximum power current – I _{mp} [A]	13.59	13.69	13.79	13.88	13.97	14.07
Module efficiency [%]	23.2	23.5	23.7	23.9	24.1	24.4

STC: irradiance 1000 W/m², cell temperature 25 °C, AM 1.5.

ELECTRICAL SPECIFICATIONS (NOCT)

Module type	515 W	520 W	525 W	530 W	535 W	540 W
Maximum power – P _{max} [Wp]	390	394	398	402	405	409
Open-circuit voltage – V _{oc} [V]	42.79	42.88	42.98	43.07	43.17	43.26
Maximum power voltage – V _{mp} [V]	35.96	36.05	36.15	36.24	36.34	36.43
Short-circuit current – I _{sc} [A]	11.85	11.87	11.89	11.93	11.96	11.99
Maximum power current – I _{mp} [A]	10.87	10.94	11.02	11.10	11.17	11.25

NOCT: irradiance 800 W/m², ambient temperature 20 °C, AM 1.5, wind speed 1 m/s.

MECHANICAL SPECIFICATIONS

Cell type	N-type ABC back-contact
Number of cells	120 (6 × 20)
Dimensions	1954 × 1134 × 30 mm
Weight	27.1 kg ± 3%
Glass	Dual glass, 2.0 + 2.0 mm coated semi-tempered
Frame	Black anodised aluminium
Junction box	IP68, 3 bypass diodes
Connector	MC4-EVO2A

Cable	4 mm ² (IEC) ±1200 mm
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TEMPERATURE, RATINGS AND INSTALLATION

Power tolerance	0 ~ +3%
Temperature coefficient of Pmax	-0.26 %/°C
Temperature coefficient of Voc	-0.22 %/°C
Temperature coefficient of Isc	+0.05 %/°C
Operating temperature	-40 °C ~ +70 °C
Maximum system voltage	1500 V DC
Maximum series fuse rating	30 A
Protection class	Class II
Maximum static loading	Front 5400 Pa · rear 2400 Pa
Hail test	35 mm diameter hail at 23 m/s
Fire rating	IEC Class A
Product warranty	25 years
First-year degradation	≤ 1%
Annual degradation, years 2-30	≤ 0.35%