

STC	A-HCM440/120	A-HCM450/120	A-HCM455/120	A-HCM460/120
Maximum Power (Pmax) (W)	440	450	455	460
Open Circuit Voltage (Voc) (V)	41.00	41.40	41.60	41.80
Short Circuit Current (Isc) (A)	13.58	13.68	13.73	13.78
Voltage at Maximum Power (Vmpp) (V)	34.20	34.60	34.80	35.00
Current at Maximum Power (Impp) (A)	12.84	12.96	13.02	13.08
Module Efficiency (%)	20.32	20.78	21.01	21.24

STC (Standard Testing Condition): Irradiance 1000 W/m², Cell Temperature 25 °C, Spectra at AM 1.5; Test uncertainty tolerance for Pmax, Voc and Isc: ±3 %

Electrical Parameters at NOCT	A-HCM440/120	A-HCM450/120	A-HCM455/120	A-HCM460/120
Maximum Power (Pmax) (W)	324	331	335	339
Open Circuit Voltage (Voc) (V)	38.28	36.68	38.88	39.08
Short Circuit Current (Isc) (A)	10.68	10.78	10.83	10.88
Voltage at Maximum Power (Vmpp) (V)	31.94	32.34	32.54	32.74
Current at Maximum Power (Impp) (A)	10.14	10.24	10.30	10.35

NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², Ambient Temperature 20 °C, Spectra at AM 1.5, Wind at 1 m/s

Temperature Characteristics

Pmax Temperature Coefficients (W / °C)	-0.36 % / °C
Voc Temperature Coefficients (V / °C)	-0.28 % / °C
Isc Temperature Coefficients (A / °C)	+0.05 % / °C
NMOT Nominal Operating Cell Temperature (°C)	45 ±2 °C

Specifications

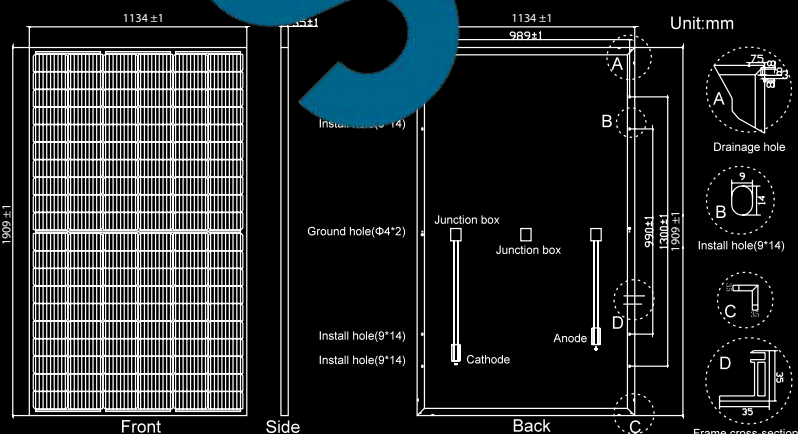
Cell Type	Monocrystalline 182 10BB
Weight	10.5 ±0.3 kg
Dimensions (mm)	1134x1909x35 (±0.7 %)
Cable Cross Section Size	4 mm ² cable approx 130 cm, QC compatible
No. of Cells	120 (60)
Junction Box	IP65 Diodes
Frame	Black anodized aluminium
Front Glass	3.2 mm high transmission, low iron, tempered glass

Operating Conditions

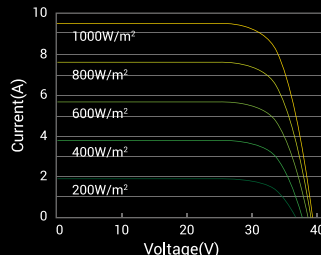
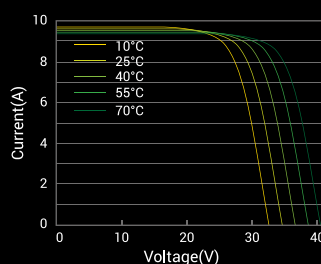
Operating Module Temperature	-40 °C ~ +85 °C
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	25 A
Selection	0 ~ +5 W
Nominal Front Load	5400 Pa
Nominal Rear Load	2500 Pa
Class of Protection	IP65

Shipping

Module type	40'HC
No. of Pallets	24
Pieces per Pallet	31
Total quantity of modules	744



I-V Curve: (A-HCM450)



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Due to continuous innovation and improvement, technical data are subject to change without prior notice.
Measurement tolerances ±3 %
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