

S4A410-72MH5BB

410W

Mono Perc Module
All-Black



America's Solution for
Quality, Performance,
and Reliability.

Our products are manufactured locally in the US,
under the highest quality standards.



World Class Mono Efficiency



Outstanding Temperature
Coefficient



Minimize Micro-crack



Improved Shading Tolerance



Excellent Anti-PID Performance



Certified for Salt/Ammonia
Corrosion Resistance



Wind and Snow Load
Up to 5400PA



Strong 40mm Frame

Solar4America Technology Inc.

4803 Urbani Ave, McClellan Park, CA 95652, USA
916-671-5606

*Subject to warranty terms and conditions

www.solar4america.com
PVsales@solar4america.com

375W-420W

MODULE EFFICIENCY

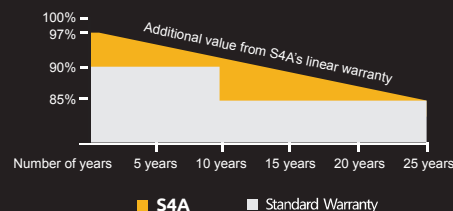
20.64%

HIGH POWER OUTPUT

420W



UL61730
UL1703



Solar4America Technology Inc. is headquartered and has module production facilities in Sacramento, California. Our S4A branded product line offers high quality, exceptional performance, and great value to our customers. Our state-of-the-art manufacturing facility uses industry-leading automated production equipment to optimize product performance and quality.

S4A410-72MH5BB

72 Cell | Mono Perc | All-Black

Rev. 10/20/2022

ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS (STC)

Module Type	S4A420	S4A415	S4A410	S4A405	S4A400	S4A395	S4A390	S4A385	S4A380	S4A375
Maximum Power - Pmax (W)	420	415	410	405	400	395	390	385	380	375
Open Circuit Voltage - Voc (V)	49.5	49.3	49.1	48.9	48.7	48.6	48.4	48.2	48	47.8
Short Circuit Current - Isc (A)	10.75	10.68	10.61	10.54	10.47	10.37	10.3	10.22	10.15	10.07
Maximum Power Voltage - Vmpp (V)	41.3	41.1	40.9	40.7	40.5	40.4	40.2	40	39.8	39.6
Maximum Power Current - Imp (A)	10.18	10.11	10.03	9.96	9.89	9.78	9.72	9.64	9.56	9.48
Module Efficiency	21.15%	20.90%	20.64%	20.39%	20.14%	19.89%	19.64%	19.39%	19.13%	18.88%

STC: irradiance 1,000 W/m²; Spectra at AM1.5; module temperature 25°C. Power output tolerance: 0~+5W. Measuring tolerance of power: ±3%

ELECTRICAL CHARACTERISTICS AT NORMAL OPERATING CELL TEMPERATURE (NOCT)

Module Type	S4A420	S4A415	S4A410	S4A405	S4A400	S4A395	S4A390	S4A385	S4A380	S4A375
Maximum Power - Pmax (W)	311	307	303	299	296	292	288	285	281	278
Open Circuit Voltage - Voc (V)	45.5	45.4	45.1	45	44.8	44.6	44.4	44.3	44.2	44.0
Short Circuit Current - Isc (A)	8.6	8.54	8.5	8.43	8.37	8.31	8.25	8.19	8.12	8.06
Maximum Power Voltage - Vmpp (V)	38.2	38.0	37.8	37.6	37.4	37.2	37.1	36.8	36.8	36.6
Maximum Power Current - Imp (A)	8.14	8.09	8.02	7.96	7.9	7.85	7.78	7.73	7.65	7.58

NOCT: irradiance 800 W/m²; Spectra at AM1.5; Cell temperature 45°C; Ambient temperature 20°C. Wind speed 1m/s

TEMPERATURE CHARACTERISTICS

NOCT	45°C (±2°C)
Temperature Coefficient of Pmax	-0.423%/°C
Temperature Coefficient of Isc	+0.039%/°C
Temperature Coefficient of Voc	-0.307%/°C

MATERIAL CHARACTERISTICS

Dimensions	1982×1002×40mm (L×W×H)
Weight	20.6kg
Frame	Anodized aluminum profile
Glass	Toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Solar Cells	6×12 monocrystalline (158.75mm×158.75mm)
Junction Box	Rated current ≥ 13A, IP ≥ 67, TUV&UL
Cable & Connector	Length 1200mm, 1x4mm² / MC4 and MC4 Compatible

MAXIMUM RATINGS

Maximum System Voltage (V)	1500
Series Fuse Rating (A)	20

PACKAGING

Pallet Dimensions	2022x1130x1119mm
Pallet Quantity	27 Modules
Truck (53') Quantity	810 Modules

SYSTEM DESIGN

Temperature Range	-40°C to +85°C
Withstanding Hail	Maximum diameter of 25 mm with Impact speed of 23 m/s
Uplift Pressure	5,400 Pa
Maximum Surface Load	5,400 Pa
Module Fire Performance	Type 1

