

ARMORCELL · CIGS THIN-FILM SOLAR KIT

ARMORCELL 80Q

Same 80 W power in a square footprint — for roofs with square-shaped available area

80
WATTS

BUILT TO LAST

IP68 SEALED

WALKABLE

IK10 IMPACT

5" BEND RADIUS

-40°F TO +185°F

OPERATING POINT

18.46 V / 4.33 A

PANEL SIZE

34.6 × 26.0 in

PANEL WEIGHT

3.7 lb (1.7 kg)

MOUNTING

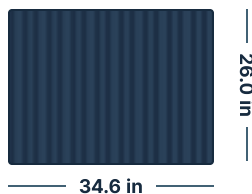
Self-adhesive

ELECTRICAL — AT STC

Peak power (Pmax)	80 W
Voltage at Pmax (Vmp)	18.46 V
Current at Pmax (Imp)	4.33 A
Open-circuit voltage (Voc)	22.88 V
Short-circuit current (Isc)	4.74 A
Technology	CIGS thin-film
Maximum system voltage	1000 VDC
NOCT	113 ± 35°F
Operating temperature	-40°F to +185°F
Series fuse rating	10 A
Power tolerance	±5%
Fire class	Class A
Connectors	MC4
Wire lead length	130 mm pos / 240 mm neg
Mounting	Self-adhesive backing

STC: 1000 W/m², cell temperature 77°F (25°C), AM 1.5. Power tolerance ±5%. Temperature coefficient of Pmax -0.36%/°C.

PANEL OUTLINE



Drawn to scale · 878 × 660 mm · thickness 2 mm

KIT CONTENTS

- ARMORCELL 80Q square panel with self-adhesive backing
- Victron SmartSolar MPPT charge controller, Bluetooth
- Roof wire gland with integrated MC4 bulkhead connectors and 15 ft pre-installed 6 mm² PV wire
- 10 A inline MC4 fuse (clicks into the positive panel lead)
- 25 A marine-style circuit breaker
- Installation hardware — self-drilling screws, grommet, bumper pad

INCLUDED CHARGE CONTROLLER

Victron SmartSolar 75|15

Charge algorithm	MPPT
Max PV input voltage	75 V
Max charge current	15 A
Battery voltage	12 V / 24 V auto
Max PV power (12 V)	220 W
Bluetooth	Built-in

SYSTEM WIRING



Unequal lead lengths are intentional: the 10 A inline fuse clicks into the positive lead between panel and roof gland. Wire battery side first, PV last.

APPLICATIONS

EMS · Fire · Police

Marine

Construction & Ag

Outdoor

KIT SKU

SK80Q-ACV

PANEL PART NO.

SP80Q-AC

WARRANTY

5 years

DOCS & DOWNLOADS
chargesys.solar/support

