

ARMORCELL · CIGS THIN-FILM SOLAR KIT

ARMORCELL 160

160

WATTS

The fleet workhorse. Full-size solar harvest on a panel thin enough to follow the lines of your vehicle or boat and hide away from the side

BUILT TO LAST

IP68 SEALED

WALKABLE

IK10 IMPACT

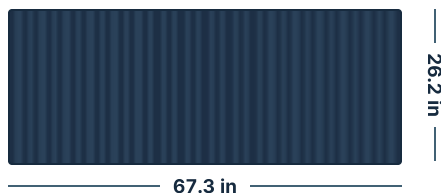
5" BEND RADIUS

-40°F TO +185°F

OPERATING POINT**19.4 V / 8.31 A****PANEL SIZE****67.3 × 26.2 in****PANEL WEIGHT****6.0 lb (2.7 kg)****MOUNTING****Self-adhesive****ELECTRICAL — AT STC**

Peak power (Pmax)	160 W
Voltage at Pmax (Vmp)	19.4 V
Current at Pmax (Imp)	8.31 A
Open-circuit voltage (Voc)	24.1 V
Short-circuit current (Isc)	9.32 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**KIT CONTENTS**

- ARMORCELL 160 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**SK160-ACV****PANEL PART NO.****SP160-AC****WARRANTY****5 years**

DOCS & DOWNLOADS
chargesys.solar/support

