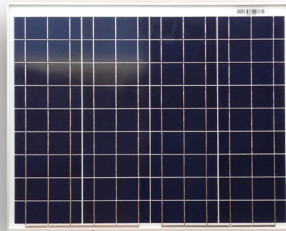


HES PV HES – Small Area Solar Modules // HES-10 · HES-20 · HES-50 · HES-100 · HES-165



HES PV SMALL AREA SOLAR MODULES

Offer reliable battery charging in all Canadian climates. Their rugged design makes them a popular choice for industrial systems, remote homes, and RV battery charging systems.

BUILT TOUGH FOR CANADA'S TOUGHEST CLIMATES

HES-50, 100, & 165 feature cUL certifications to offer reliable battery charging in all Canadian climates. They also include MC 4 type connectors for ease of installation.

MECHANICAL STRENGTH

The anodized aluminium frame mates with the Fast-Rack pole, roof, and ground mounts for a strong and secure solar system. Modules may be installed in portrait or landscape.

RELIABLE

10 year mechanical warranty and 25 year power output warranty ensure your solar system delivers power to your load.



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HES – Small Area Solar Modules //

HES-10 · HES-20 · HES-50 · HES-100 · HES-165

ELECTRICAL CHARACTERISTICS

Module	HES-10-40PV	HES-20-40PV	HES-50-36PV	HES-100-36PV	HES-165-36PV
Max Power (Pmax)	10 W	20 W	50 W	100 W	165 W
Open Circuit Voltage (Voc)	19.8 V	20.1 V	20.4 V	20.6 V	21.2 V
Maximum Power Voltage (Vpm)	17.6 V	17.9 V	18.5 V	18.2 V	18.6 V
Short Circuit Current (Isc)	0.65 A	1.26 A	3.15 A	6.23 A	9.86 A
Maximum Power Current (Ipm)	0.57 A	1.12 A	2.77 A	5.5 A	8.87 A
Max Series Fuse Rating	10 A	10 A	10 A	10 A	10 A

STC - Standard Test Conditions: Irradiation 1000 W/m² - Air mass AM 1.5 - Cell temperature 25°C
Calculated using maximum power.

MECHANICAL CHARACTERISTICS

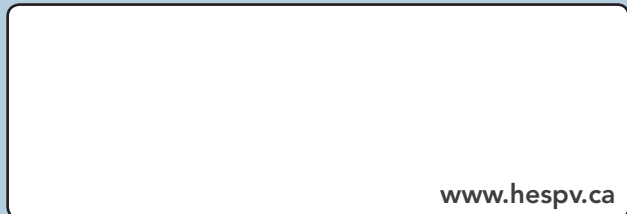
Module	HES-10-40PV	HES-20-40PV	HES-50-36PV	HES-100-36PV	HES-165-36PV
Dimensions (H x W x D)	250 x 356 x 17 mm 9.8 x 14 x 0.6"	450 x 356 x 20 mm 17.7 x 14 x .8"	670 x 540 x 25 mm 26.3 x 21.2 x 1"	1020 x 670 x 30 mm 40 x 26.3 x 1.2"	1480 x 670 x 35 mm 58.3 x 26.3 x 1.3"
Output Interconnect Cable	1 Meter Sunlight Resistant Cables	1 Meter Sunlight Resistant Cables	MC 4 Type	MC 4 Type	MC 4 Type
Operating Temperature	-40 to 85°C / -40 to 185°F				

WARRANTY & CERTIFICATIONS

Module	HES-10-40PV	HES-20-40PV	HES-50-36PV	HES-100-36PV	HES-165-36PV
	CE	CE	cUL & CE	cUL & CE	cUL & CE
10 Year limited warranty on material and workmanship					
25 Year Power Guarantee					
Years 0 - 10 > 90%					
Years 10 - 25 > 80%					



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