Technical parameters of the panels

Properties

200 W flexible solar panel is the best choice. With advanced features and unmatched performance, it is a smart and sustainable choice for all your energy needs.

It is easy to transport, carry and install: 200 W flexible solar panel fits mostly all curved surfaces. First-rate technology: The solar panels are equipped with shingle technology that improves sunlight capture and electrical output.

Thereafter, it improves output efficiency. Reliable and durable. This solar panel achieves IP67 waterproof junction box and solar connectors.

It can withstand up to 5400 Pa of heavy snow load and up to 2400 Pa of strong wind.

Technical parameters

STC	HMN-200-EWAS
Maximum power (Pmax)	200W
Voltage at Maximum Power (Vmp)	27,7 V
Current at Maximum Power (Imp)	7,23A
Open Circuit Voltage (Voc)	33,5V
Short Circuit Current (Isc)	7,62A
Module efficiency (%)	19,09 %
Operating temperature	-40°C up to 85°C
Maximum system voltage	600V DC
The Maximum Series Fuse Rating	15A
Application class	class A
P power Tolerance	0~+5 W
STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5	

Mechanical properties

Solar panel	Monocrystalline silicon cell
The number of cells	200
Dimensions of the module	L:1564 * W:670 * H:18 mm
Mass	3,5 kg
Back sheet	White PV back layer
J-Box	Degree of protection IP 67
Output cables	4 mm²
The cable length	HMN-200-EWAS
Maximum power (Pmax)	(+)/(-) 300 mm
Connector	Compatible with MC4

Temperature characteristics

NOCT (Nominal Cell Operating Temperature)	41 ± 2°C
Temperature coefficient ISC	-0,38 %/°C
Temperature coefficient Voc (β)	-0,28 %/°C
Temperature coefficient Pmpp(γ)	0,020 %/°C

Technical parameters of the microinverter

Input Data (DC)

Common module power supply (W)	320 up to 540+
Maximum input voltage (V)	60
MPPT voltage range (V)	16-60
Starting voltage (V)	22
Maximum input current (A)	12.5

Output Data (AC)

Rated power output (VA)	400
Rated output current (A)	1.82; 1.74; 1.67
Rated output voltage/range (V)[1]	220/180-275; 230/180-275; 240/180-27
Nominal frequency/range (Hz)[1]	50/45-55 or 60/55-65
Power factor (adjustable)	>0.99 default; 0.8 leading; 8 lagging
Total harmonic distortion	<3%
Max. units per 10 AWG branch[2]	17; 18; 19
Max. units per 12 AWG branch[2]	10; 11; 11

Efficiency

Superior CEC efficiency	96.7%
Average CEC activity	96.5%
Nominal MPPT efficiency	99.8%
Night power consumption (mW)	<50

Mechanical data

Ambient temperature range (°C)	-40 up to +65
Dimensions (W x H x D mm)	182 × 164 × 29.5
Weight (kg)	1.98
Degree of coverage	Outdoor-IP67 (NEMA 6)
Cooling	without fan

Properties

Communication	Sub-1G
Isolation	Galvanically isolated VF Transformer
Monitoring	Hoymiles S-Miles Cloud[3]

Compliance:

EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019,
IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3

*1 Rated voltage/frequency range may vary depending on local requirements.
*2 Refer to local requirements for the exact number of microinverters per branch.
*3 Hoymiles Monitoring System