

Solar Hybrid Mini-Split Air Conditioner Heat Pump

Specifications

MODEL	12 000 BTU	18 000 BTU
COOLING PERFORMANCE		
SEER2	23.40 Btu/W	21.70 Btu/W
EER	13.74 Btu/W	12.79 Btu/W
Cooling Capacity	3500 W (12,000 Btu/h)	5150 W (18,000 Btu/h)
HEATING PERFORMANCE		
HSPF2	9.70 Btu/W	9.55 Btu/W
COP (Btu/W)	13.34 Btu/W	13.70 Btu/W
COP(W/W)	3.90 W/W	4.01 W/W
Heating Capacity	3500 W (12,000 Btu/h)	5150 W (18,000 Btu/h)
ELECTRICAL (AC)		
Rated Voltage	208-240 V	
Min/Max Voltage	150-265 V	
Rated Current Cooling	3.85 A	5.88 A
Rated Current Heating	4.02 A	5.80 A
Rated Power Cooling	180-860 W	220-1340 W
Rated Power Heating	180-905 W	220-1320 W
Rated Frequency	50-60 Hz	
Circuit Breaker	15 A	
ELECTRICAL (DC)		
Rated Voltage (DC Solar-Only Mode)	80-350 VDC	
Rated Voltage (AC/DC Hybrid Mode)	70-380 VDC	
Maximum PV Voltage	380 VOC	
Maximum PV Amperage	12 A	
Recommended PV Wattage	900 - 1400 W	1300 - 1800 W
48V Battery Bank Minimum Capacity (if applicable)	5 kWh or more	
REFRIGERANT		
Refrigerant Type	R32 (830 g/29.3 oz)	
Maximum Allowable Pressure	4.3 MPa (~624 psi)	
Liquid Valve Diameter	6.35 mm (1/4")	
Gas Valve Diameter	9.5 mm (3/8")	
Max Refrigerant Lineset Length	10 m (32.81 ft)	15 m (49.21 ft)
Max Refrigerant Lineset Drop Height	5 m (16.4 ft)	10 m (32.81 ft)

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COMPRESSOR		
Compressor Type	Rotary	
Compressor Trademark	HIGHLY	
Input Power	830 W	900 W
INDOOR UNIT		
Fan Type	Cross-flow	
Fan Speed (High, Medium, Low, Auto)	1300/1200/1100/960 rpm	1050/950/850/750 rpm
Air Flow (High, Medium, Low, Auto)	540/485/435/350 m ³ /h (318/285/256/206 CFM)	980/880/740/620 m ³ /h (577/518/436/365 CFM)
Sound Pressure (Low, Medium, High)	24-37-42 dB(A)	30-42-45 dB(A)
Operating Temperature Range	16 - 32 °C (60 - 90 °F)	
Unit Dimensions (W x D x H)	895 x 210 x 298 mm (35.2 x 8.3 x 11.7 in)	100 x 236 x 306 mm (39.4 x 9.3 x 12.0 in)
Packaging Dimension	965 x 275 x 370 mm (38.0 x 10.8 x 14.6 in)	1075 x 310 x 385 mm (42.3 x 12.2 x 15.2 in)
Net Weight	11 kg (24.3 lbs)	13 kg (28.7 lbs)
OUTDOOR UNIT		
Sound Pressure	52 dB(A)	54 dB(A)
Operating Temperature Range (Cooling)	0 - 55 °C (32 - 131 °F)	
Operating Temperature Range (Heating)	-15 - 32 °C (5 - 90 °F)	
Unit Dimensions (W x D x H)	782 x 336 x 544 mm (30.8 x 13.2 x 21.4 in)	856 x 365 x 555 mm (33.7 x 14.4 x 21.9 in)
Packaging Dimension (W x D x H)	855 x 367 x 600 mm (33.7 x 14.4 x 23.6 in)	913 x 396 x 604 mm (35.9 x 15.6 x 23.8 in)
Net Weight	27 kg (59.5 lbs)	31 kg (68.3 lbs)
WARRANTY		
Limited Warranty	5-Year Limited Warranty	