

Subtype DC Inverter Air Source Heat Pump R32-12

Certificate Holder	Speedy Green Energy Co., Limited
Address	Unit 1101B, Lippo Sun Plaza
ZIP	
City	Tsim Sha Tsui Kowloon
Country	HK
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air Source Heat Pump R32-12
Registration number	041-K056-01
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.7 kg
Certification Date	02.06.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12

Model SHP 12 VIN

Model name	SHP 12 VIN
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	180 %	132 %
Prated	9.18 kW	8.86 kW
SCOP	4.58	3.38
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.12 kW	7.84 kW
COP Tj = -7°C	3.10	2.22
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.97 kW	4.79 kW
COP Tj = +2°C	4.43	3.33
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.75 kW	4.56 kW
COP Tj = +7°C	5.95	4.46
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.49 kW	5.30 kW
COP Tj = 12°C	8.99	6.34
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.12 kW	7.84 kW
COP Tj = Tbiv	3.10	2.22

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.92 kW	7.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	45 °C	45 °C
Poff	5 W	5 W
PTO	25 W	25 W
PSB	5 W	5 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.26 kW	1.10 kW
Annual energy consumption Qhe	4146 kWh	5424 kWh