

Subtype BES MONOBLOK 6KW-1

Certificate Holder	Fotowoltaika By Energy Solutions sp. z o. o.
Address	Rynek Główny 28
ZIP	31-010
City	Krakow
Country	PL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	BES MONOBLOK 6KW-1
Registration number	011-1W0867
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	14.08.2024
Testing basis	HP KEYMARK certification scheme rules V14

Model BES MONOBLOK 6KW-1

Model name	BES MONOBLOK 6KW-1
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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9.00 kW	8.70 kW
El input	2.15 kW	3.03 kW
COP	4.19	2.87

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	127 %
Prated	8.23 kW	7.14 kW
SCOP	4.45	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.28 kW	6.23 kW
COP Tj = -7°C	3.13	2.25
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.45 kW	3.89 kW
COP Tj = +2°C	4.54	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.71 kW	4.34 kW

COP Tj = +7°C	5.56	4.09
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.66 kW	4.92 kW
COP Tj = 12°C	7.74	5.39
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.28 kW	6.23 kW
COP Tj = Tbiv	3.13	2.25
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.59 kW	7.13 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	6 W	6 W
PTO	6 W	6 W
PSB	6 W	6 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.60 kW	0.01 kW
Annual energy consumption Qhe	3820 kWh	4539 kWh