

Subtype EVI DC Inverter Air Source Heat Pumps 050

Certificate Holder	Guangzhou Sprsun New Energy Technology Dev. Co., Ltd,
Address	No.15 Tangxi Road, Yinsha Industrial Park
ZIP	511338
City	Guangzhou
Country	CN
Certification Body	BRE Global Limited
Subtype title	EVI DC Inverter Air Source Heat Pumps 050
Registration number	041-K036-04
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.8 kg
Certification Date	08.11.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model CGK-050V3L-B

Model name	CGK-050V3L-B
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	3x400V 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	15.58 kW	15.57 kW
El input	3.23 kW	4.93 kW
COP	4.82	3.16

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	182 %	133 %
Prated	13.29 kW	12.77 kW
SCOP	4.61	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.75 kW	11.29 kW
COP Tj = -7°C	3.15	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.33 kW	6.90 kW
COP Tj = +2°C	4.68	3.32
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.48 kW	8.11 kW

COP Tj = +7°C	6.07	4.63
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.55 kW	9.33 kW
COP Tj = 12°C	7.89	6.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.75 kW	11.29 kW
COP Tj = Tbiv	3.15	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.50 kW	11.66 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	57 °C	57 °C
Poff	14 W	14 W
PTO	16 W	16 W
PSB	14 W	14 W
PCK	32 W	32 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.79 kW	1.11 kW
Annual energy consumption Qhe	5953 kWh	7755 kWh

Model CGK060V3L-B

Model name	CGK060V3L-B
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	16.33 kW	16.05 kW
El input	3.40 kW	5.16 kW
COP	4.81	3.11

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	71 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	139 %
Prated	13.34 kW	14.09 kW
SCOP	4.82	3.55
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.80 kW	12.46 kW
COP Tj = -7°C	2.98	2.38
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.93 kW	7.58 kW
COP Tj = +2°C	4.63	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.58 kW	8.14 kW

COP Tj = +7°C	6.44	4.61
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	9.81 kW	9.58 kW
COP Tj = 12°C	9.02	6.81
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.80 kW	12.46 kW
COP Tj = Tbiv	2.98	2.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.93 kW	11.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.41 kW	2.19 kW
Annual energy consumption Qhe	5718 kWh	8187 kWh