

Subtype EVI DC Inverter Air Source Heat Pump- R32- 50/60

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 Pump- R32- 50/60
Registration number	041-K036-10
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.8 kg
Certification Date	27.09.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14

**Model CGK-050V3L**

Model name	CGK-050V3L
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	10.85 kW	15.65 kW
El input	2.11 kW	4.79 kW
COP	5.13	3.26

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	66 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	179 %	139 %
Prated	12.08 kW	12.35 kW
SCOP	4.55	3.54
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.68 kW	10.93 kW
COP Tj = -7°C	2.87	2.31
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.82 kW	6.89 kW
COP Tj = +2°C	4.67	3.62
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.22 kW	7.89 kW

COP Tj = +7°C	6.28	4.68
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.22 kW	9.01 kW
COP Tj = 12°C	8.17	6.22
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.68 kW	10.93 kW
COP Tj = Tbiv	2.87	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.15 kW	11.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	16 W	16 W
PTO	19 W	19 W
PSB	16 W	16 W
PCK	47 W	47 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.92 kW	1.01 kW
Annual energy consumption Qhe	5482 kWh	7200 kWh

**Model CGK-060V3L**

Model name	CGK-060V3L
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	11.46 kW	16.38 kW
El input	2.23 kW	5.02 kW
COP	5.13	3.26

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	67 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	181 %	139 %
Prated	12.58 kW	13.52 kW
SCOP	4.59	3.56
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.13 kW	11.96 kW
COP Tj = -7°C	2.69	2.31
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.10 kW	7.57 kW
COP Tj = +2°C	4.77	3.58
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.54 kW	8.00 kW

COP Tj = +7°C	6.36	4.75
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.59 kW	9.15 kW
COP Tj = 12°C	8.40	6.32
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.13 kW	11.96 kW
COP Tj = Tbiv	2.69	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.63 kW	12.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	18 W	18 W
PSB	17 W	17 W
PCK	34 W	34 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.95 kW	1.26 kW
Annual energy consumption Qhe	5658 kWh	7849 kWh