

Subtype EVI DC Inverter Heat Pump 50/60 A

Certificate Holder	Power World Machinery Equipment Co. Ltd
Address	No.24, The Fourth Industrial Zone, HouTing Street
ZIP	
City	Shenzhen
Country	CN
Certification Body	BRE Global Limited
Subtype title	EVI DC Inverter Heat Pump 50/60 A
Registration number	041-K032-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.7 kg
Certification Date	18.08.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model PW050-DKZLRS-A

Model name	PW050-DKZLRS-A
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	20.70 kW	19.68 kW
El input	4.58 kW	7.41 kW
COP	4.52	2.66

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	73 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	134 %
Prated	16.17 kW	17.01 kW
SCOP	4.45	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.31 kW	15.05 kW
COP Tj = -7°C	3.53	2.34
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.72 kW	9.20 kW
COP Tj = +2°C	4.36	3.40
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.69 kW	7.50 kW

COP Tj = +7°C	5.44	4.29
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	10.06 kW	8.71 kW
COP Tj = 12°C	6.68	5.69
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	14.31 kW	15.05 kW
COP Tj = Tbiv	3.53	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.18 kW	13.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	5 W	5 W
PTO	15 W	5 W
PSB	5 W	5 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	3.22 kW
Annual energy consumption Qhe	7507 kWh	10293 kWh

Model PW060-DKZLRS-A

Model name	PW060-DKZLRS-A
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	20.49 kW	21.59 kW
El input	5.85 kW	7.46 kW
COP	3.50	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	72 dB(A)	75 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	132 %
Prated	17.67 kW	18.25 kW
SCOP	4.45	3.38
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.63 kW	16.14 kW
COP Tj = -7°C	3.55	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.53 kW	9.83 kW
COP Tj = +2°C	4.35	3.42
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	9.08 kW	7.82 kW

COP Tj = +7°C	5.44	4.22
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.31 kW	9.26 kW
COP Tj = 12°C	6.98	5.65
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	15.63 kW	16.14 kW
COP Tj = Tbiv	3.55	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.17 kW	14.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.87	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	5 W	5 W
PTO	15 W	15 W
PSB	5 W	5 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.50 kW	4.06 kW
Annual energy consumption Qhe	8198 kWh	11167 kWh