Subtype DC Inverter Heat Pump- R290- 055

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	DC Inverter Heat Pump- R290- 055
Registration number	041-K032-14
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.3 kg
Certification Date	20.05.2025
Testing basis	HP KEYMARK certification scheme rules rev. no.15
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model PW055-DKZLRS-E/S	
Model name	PW055-DKZLRS-E/S
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	12.20 kW	12.16 kW
El input	2.59 kW	4.03 kW
COP	4.72	3.02

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	59 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	187 %	142 %
Prated	12.00 kW	12.00 kW
SCOP	4.74	3.63
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.61 kW	10.61 kW
COP Tj = -7°C	3.21	2.28
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.58 kW	6.69 kW
COP Tj = +2°C	4.65	3.61
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.50 kW	7.21 kW

COP Tj = +7°C	6.42	4.93
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.91 kW	8.22 kW
COP Tj = 12°C	8.79	7.15
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.61 kW	10.61 kW
COP Tj = Tbiv	3.21	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.96 kW	11.89 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.97
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	8 W	8 W
PTO	15 W	15 W
PSB	8 W	8 W
PCK	51 W	51 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.04 kW	0.11 kW
Annual energy consumption Qhe	5224 kWh	6833 kWh

Model PW055-DKZLRS-E

Model name	PW055-DKZLRS-E
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	12.17 kW	12.03 kW
El input	2.64 kW	4.00 kW
COP	4.61	3.01

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	184 %	141 %
Prated	12.03 kW	11.94 kW
SCOP	4.68	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.65 kW	10.56 kW
COP Tj = -7°C	3.24	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.64 kW	6.70 kW
COP Tj = +2°C	4.67	3.61
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.41 kW	7.06 kW

COP Tj = +7°C	6.01	4.71
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	8.90 kW	8.41 kW
COP Tj = 12°C	8.73	6.76
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.65 kW	10.56 kW
COP Tj = Tbiv	3.24	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.93 kW	11.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	15 W	15 W
PTO	17 W	17 W
PSB	15 W	15 W
PCK	44 W	44 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.10 kW	0.00 kW
Annual energy consumption Qhe	5314 kWh	6853 kWh