Subtype DC Inverter Heat Pump- R290- 070

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- 070
Registration number	041-K032-16
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.6 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 PW070-DKZLRS-E/S	
Model name	PW070-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	16.01 kW	15.80 kW
El input	3.47 kW	5.43 kW
COP	4.61	2.91

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	190 %	140 %
Prated	15.88 kW	15.67 kW
SCOP	4.82	3.57
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.05 kW	13.86 kW
COP Tj = -7°C	3.00	2.21
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.61 kW	8.46 kW
COP Tj = +2°C	4.93	3.59
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.81 kW	8.31 kW

COP Tj = +7°C	6.52	4.79
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.21 kW	9.08 kW
COP Tj = 12°C	8.04	6.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	14.05 kW	13.86 kW
COP Tj = Tbiv	3.00	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.79 kW	13.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.66	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	18 W	18 W
PSB	9 W	9 W
PCK	54 W	54 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.10 kW	2.35 kW
Annual energy consumption Qhe	6803 kWh	9058 kWh

Model PW070-DKZLRS-E

Model name	PW070-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	15.96 kW	15.86 kW
El input	3.50 kW	5.47 kW
COP	4.57	2.90

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	186 %	135 %
Prated	15.51 kW	15.88 kW
SCOP	4.73	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.72 kW	14.05 kW
COP Tj = -7°C	2.90	2.30
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.36 kW	8.60 kW
COP Tj = +2°C	4.75	3.36
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.60 kW	8.00 kW

COP Tj = +7°C	6.38	4.57
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	10.25 kW	9.97 kW
COP Tj = 12°C	9.11	7.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.72 kW	14.05 kW
COP Tj = Tbiv	2.90	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	14.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	2.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	16 W	16 W
PTO	19 W	19 W
PSB	16 W	16 W
PCK	52 W	52 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.41 kW	1.54 kW
Annual energy consumption Qhe	6780 kWh	9478 kWh