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Summary of	EVI DC Inverter Heat Pump 050&060	Reg. No.	041-K032-03
Certificate Holder			
Name	Power World Machinery Equipment Co. Ltd		
Address	No.24, The Fourth Industrial Zone, HouTing Street	Zip	
City	Shenzhen	Country	China
Certification Body	BRE Global Limited		
Subtype title	EVI DC Inverter Heat Pump 050&060		
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		

Model: PW050-DKZLRS-A

Configure model	
Model name	PW050-DKZLRS-A
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	20.72 kW	19.68 kW
El input	4.63 kW	7.41 kW
COP	4.55	2.66

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	73 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	175 %	137 %
Prated	16.45 kW	17.04 kW
SCOP	4.46	3.51
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.55 kW	15.08 kW
COP Tj = -7°C	3.55	2.33
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	8.79 kW	9.22 kW
COP Tj = +2°C	4.29	3.49
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	8.74 kW	6.54 kW
COP Tj = +7°C	5.18	4.15
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	9.93 kW	7.95 kW

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COP Tj = 12°C	6.79	5.96
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	14.55 kW	15.08 kW
COP Tj = Tbiv	0.55	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.54 kW	13.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	50 °C	50 °C
Poff	5 W	5 W
PTO	5 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	3.23 kW
Annual energy consumption Qhe	7622 kWh	10032 kWh

Model: PW060-DKZLRS-A

Configure model	
Model name	PW060-DKZLRS-A
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	72 dB(A)	75 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	175 %	132 %
Prated	17.73 kW	18.46 kW
SCOP	4.46	3.38
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.69 kW	16.33 kW
COP Tj = -7°C	3.52	2.21
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	9.58 kW	9.86 kW
COP Tj = +2°C	4.29	3.41
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	8.82 kW	6.79 kW
COP Tj = +7°C	5.14	4.01
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	10.45 kW	8.10 kW

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COP Tj = 12°C	6.81	5.72
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	15.69 kW	16.33 kW
COP Tj = Tbiv	3.52	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.22 kW	14.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	50 °C	50 °C
Poff	5 W	5 W
PTO	5 W	5 W
PSB	5 W	5 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.51 kW	4.24 kW
Annual energy consumption Qhe	8214 kWh	11269 kWh