

Subtype EVI DC Inverter Heat Pump- R32- 6

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| Certificate Holder | Fotowoltaika By Energy Solutions sp. z o. o. |
| Address | Rynek Główny 28 |
| ZIP | 31-010 |
| City | Krakow |
| Country | PL |
| Certification Body | BRE Global Limited |
| Subtype title | EVI DC Inverter Heat Pump- R32- 6 |
| Registration number | 041-K097-01 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R32 |
| Mass of Refrigerant | 1.3 kg |
| Certification Date | 15.08.2024 |
| Testing basis | HP KEYMARK certification scheme rules rev. no.14 |
| Testing laboratory | TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN |

Model BES 6 KW

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|-------------------------------------|-----------------------|
| Model name | BES 6 KW |
| 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

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|--|--------|
| 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 | 5.04 kW | 4.99 kW |
| El input | 1.14 kW | 1.66 kW |
| COP | 4.42 | 3.00 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 62 dB(A) | 64 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 175 % | 128 % |
| Prated | 4.13 kW | 4.34 kW |
| SCOP | 4.45 | 3.27 |
| Tbiv | -7 °C | -7 °C |
| TOL | -25 °C | -25 °C |
| Pdh Tj = -7°C | 3.65 kW | 3.84 kW |
| COP Tj = -7°C | 2.75 | 2.36 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 2.38 kW | 2.45 kW |
| COP Tj = +2°C | 4.65 | 3.21 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 2.37 kW | 2.72 kW |

| | | |
|---|-------------|-------------|
| COP Tj = +7°C | 5.80 | 4.30 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 2.98 kW | 3.00 kW |
| COP Tj = 12°C | 7.80 | 5.74 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 3.65 kW | 3.84 kW |
| COP Tj = Tbiv | 2.75 | 2.36 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.90 kW | 4.20 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.39 | 1.94 |
| 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 | 6 W | 6 W |
| PSB | 5 W | 5 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.23 kW | 0.14 kW |
| Annual energy consumption Qhe | 1917 kWh | 2742 kWh |