

PowerPillar Hybrid Inverter (8KW, All-in-One)

Model Number GVI-HS-8K-USM

PV Input

| | |
|-----------------------------|------------|
| Max. Power | 12 KW |
| Max. DC voltage | 500 V |
| MPPT voltage range | 120 - 500V |
| Max. input current per MPPT | 14 A |
| MPP- tracker / strings | 4 / 1 |

Input / Output (AC)

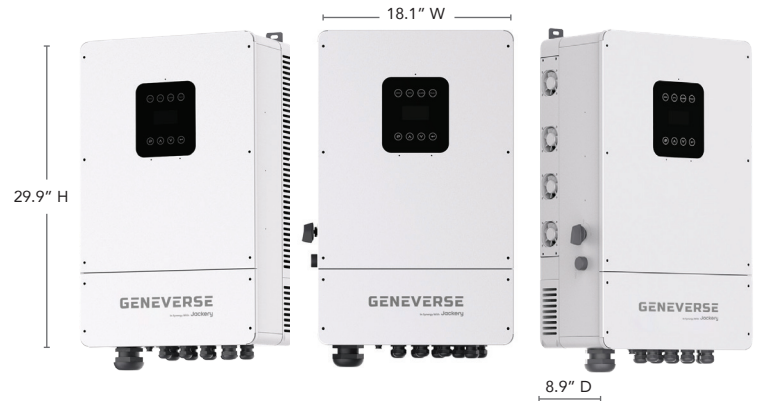
| | |
|--|--|
| Nominal Power | 8 kVA |
| Max. apparent power | 8.8 kVA |
| Max. current | 33.3 A |
| AC voltage | 120/240 (split phase) 208 (2/3 phase) 230 (single phase) |
| Frequency | 50 / 60 Hz |
| Power factor | 0.8 lagging - 0.8 leading |
| Total harmonic current distortion (THDi) | <3% |
| AC topology | Split phase, 2/3 phase, single phase |

Battery

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|---------------------------------|---------------------|
| Voltage range | 40 - 58 V |
| Max. charging voltage | 58 V |
| Max. charge / discharge current | 190 A |
| Battery type | Lithium / Lead-acid |
| Communications | CAN / RS485 |

Off-grid Output

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|--|--|
| Nominal output power | 8 kVA |
| Peak power | 125%, 60 s / 150%, 1 s |
| Nominal output voltage | 120/240 (split phase) 208 (2/3 phase) 230 (single phase) |
| Nominal output current | 33.3 A |
| Nominal frequency | 50 / 60 Hz |
| Total harmonic voltage distortion (THDu) | <2% |
| Automatic switching time | <20 ms |



Efficiency

| | |
|---------------------------|---------|
| Max. efficiency | ≥ 98.2% |
| North American efficiency | ≥ 97.2% |

General

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|-----------------------|--|
| IP rating | IP65 |
| Enclosure type | NEMA 3R |
| Noise emission | <29 dB |
| Operating temperature | -13°F to 140°F (-25°C to 60°C) |
| Cooling mode | Forced air |
| Relative humidity | 0 – 95% (non-condensing) |
| Operating altitude | 13,123 ft. / 4000 m (>2000m derating) |
| Dimension (HxWxD) | 29.9 × 18.1 × 8.9 in (760 × 460 × 225 mm) |
| Weight | 90 lb (41 kg) |
| Isolation transformer | No |
| Self-consumption | <3 W |
| Communications | RS485 / Wi-Fi / 4G / CAN |
| Display | LCD screen |
| Warranty | 12 Years |

Safety

| | |
|-----------------|--|
| EMC | FCC Part 15, Class B |
| Safety standard | UL1741, CSA C22.2 No. 107.1:16, UL1998 |
| Grid regulation | IEEE1547, CPUC Rule21, SRD V2.0, UL1741 SA, UL1741 SB |
| DC ARC-Fault | UL1699B |