# Sigen PV Inverter

*Preliminary*

| Sigen PV | 500H1 | Units |
|---|---|---|
| **DC Input** | | |
| Max. DC input voltage | 1500 | V |
| Start-up voltage | 520 | V |
| MPPT voltage range | 480 ~ 1500 | V |
| Number of MPP. trackers | 18 | |
| Number of PV strings per MPPT | 2 | |
| Max. input current per MPPT | 40 | A |
| Max. short-circuit current per MPPT | 60 | A |
| **AC Output** | | |
| Nominal output active power [1] | 460,000 | W |
| Max. output apparent power | 506,000 | VA |
| Max. output active power (cosϕ=1) | 506,000 | W |
| Nominal output current | 265.6 | A |
| Max. output current | 292.2 | A |
| Nominal output voltage | 1000, 3W+PE | Vac |
| Nominal grid frequency | 50 / 60 | Hz |
| Power factor | 0.8 leading ~ 0.8 lagging | |
| Total current harmonic distortion | THDi < 1% | |
| **Efficiency** | | |
| Max. efficiency | 99.1% | |
| European efficiency | 98.8% | |
| **Protection** | | |
| DC switch | Supported | |
| PV / Output terminal overtemperature protection | Supported | |
| Anti-islanding protection | Supported | |
| AC overcurrent protection | Supported | |
| DC reverse polarity protection | Supported | |
| DC surge protection | Type II (Default) / Type I+II (Optional) | |
| AC surge protection | Type II | |
| Insulation monitoring | Supported | |
| AFCI | Optional | |
| Residual current monitoring | Supported | |
| **General Data** | | |
| Dimensions (W / H / D) | 1080 / 875 / 409 | mm |
| Weight [2] | 140 | kg |
| Nighttime power consumption | 4.8 | W |
| Operating temperature range | -30 ~ 60 | °C |
| Relative humidity range | 0% ~ 100% | |
| Max. operating altitude | 5000 (Derating at 4000 m) | m |
| Cooling | Smart air cooling | |
| DC connection type | H4 Pro | |
| AC connection type | OT/DT terminal | |
| Ingress protection rating | IP66 | |
| Anti-corrosion protection | C5-M (Default) / C5-H (Optional) | |
| **Communication & Display** | | |
| FE (Fast Ethernet) | Supported | |
| PLC (AC) | Supported | |
| WLAN + APP | Supported | |
| LED indicators | Supported | |

1. The ambient temperature is 40°C .
2. The actual weight may vary by ±10%. Please refer to the actual delivered product. The specification is for reference only.

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# Sigen PV Inverter

*Preliminary*

| Sigen PV | 400H2 | 370H2 | Units |
|---|---|---|---|
| **DC Input** | | | |
| Max. DC input voltage | 1500 | | V |
| Start-up voltage | 520 | | V |
| Nominal DC input voltage | 1080 | | V |
| MPPT voltage range | 480 ~ 1500 | | V |
| Number of MPP. trackers | 14 | | |
| Number of PV strings per MPPT | 2 | | |
| Max. input current per MPPT | 40 | | A |
| Max. short-circuit current per MPPT | 60 | | A |
| **AC Output** | | | |
| Nominal output active power | 360,000 | 333,000 | W |
| Max. output apparent power | 396,000 | 366,300 | VA |
| Max. output active power (cosϕ=1) | 396,000 | 366,300 | W |
| Nominal output current | 259.9 | 240.4 | A |
| Max. output current | 285.8 | 264.4 | A |
| Nominal output voltage | 800, 3W+PE | | Vac |
| Nominal grid frequency | 50 / 60 | | Hz |
| Power factor | 0.8 leading ~ 0.8 lagging | | |
| Total current harmonic distortion | THDi < 1% | | |
| **Efficiency** | | | |
| Max. efficiency | 99.0% | | |
| European efficiency | 98.8% | | |
| **Protection** | | | |
| DC switch | Supported | | |
| PV / Output terminal overtemperature protection | Supported | | |
| Anti-islanding protection | Supported | | |
| AC overcurrent protection | Supported | | |
| DC reverse polarity protection | Supported | | |
| DC surge protection | Type II (Default) / Type I+II (Optional) | | |
| AC surge protection | Type II | | |
| Insulation monitoring | Supported | | |
| AFCI | Optional | | |
| Residual current monitoring | Supported | | |
| **General Data** | | | |
| Dimensions (W / H / D) | 1080 / 875 / 409 | | mm |
| Weight [1] | 140 | | kg |
| Nighttime power consumption | 4.8 | | W |
| Operating temperature range | -30 ~ 60 | | °C |
| Relative humidity range | 0% ~ 100% | | |
| Max. operating altitude | 5000 (Derating at 4000 m) | | m |
| Cooling | Smart air cooling | | |
| DC connection type | H4 Pro | | |
| AC connection type | OT/DT terminal | | |
| Ingress protection rating | IP66 | | |
| Anti-corrosion protection | C5-M (Default) / C5-H (Optional) | | |
| **Communication & Display** | | | |
| FE (Fast Ethernet) | Supported | | |
| PLC (AC) | Supported | | |
| WLAN + APP | Supported | | |
| LED indicators | Supported | | |

1. The actual weight may vary by ±10%. Please refer to the actual delivered product. The specification is for reference only.

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