


# H5A Flex

High-efficiency single-phase solar inverters for residential PV systems.

30 V ↑

Wide input voltage range (30 to 600 V)

98.3%

Peak efficiency

- IP65 aluminum housing for long-lasting protection against moisture and corrosion
- Compact design with exceptional power density for easy installation
- Grand comfort d'utilisation de par son design sans ventilateurs
- Commissioning and monitoring with smartphone app via Wi-Fi

# 5.0 kVA solar inverter

| Input (DC) | H5A Flex |
|---|---|
| Max. Power | 5.28 kW |
| Operating voltage range | 30 to 600 $V_{DC}$ |
| MPP voltage range | 30 to 550 $V_{DC}$ |
| MPP voltage range with max. Power | 240 to 500 $V_{DC}$ |
| Maximum current (per MPP tracker / total) | 11 A / 18 A |
| Max. number of MPP trackers | 2 |
| Max. number of module strings per MPP tracker | 1 |

| Output (AC) | H5A Flex |
|---|---|
| Max. Apparent power [1) 2)] | 5.0 kVA |
| Nominal apparent power [2)] | 5.0 kVA |
| Voltage range [3)] | 230 $V_{AC}$ -20%/+22%, single-phase (L, N, PE) |
| Nominal current | 22 A |
| Frequency range [3)] | 50 / 60 Hz ± 5 Hz |
| Adjustment range of power factor | 0.8 cap to 0.8 ind |
| Total harmonic distortion (THD) | < 3% at rated apparent power |

| General Specifications | H5A Flex |
|---|---|
| Delta model name | H5A_220 |
| Delta part number | RPI502H220000 |
| Peak efficiency | 98.3% |
| Efficiency EU | 98.0% |
| Operating temperature range | -25 to +60°C |
| Temperature range without power derating | -25 to +40°C |
| Storage temperature range | -25 to +60°C |
| Relative humidity | 0 to 95% non-condensing |
| Maximum operating altitude | 2000 m (above sea level) |
| Standard guarantee | 5 years (warranty extension available upon request) |

| Mechanical design | H5A Flex |
|---|---|
| Dimensions (H x W x D) | 318 × 380 × 130 mm |
| Weight | 12 kg |
| Cooling | Natural convection, without fans |
| Mounting options | Wall mounting [4)] |
| Disconnectors | 1 mechanical DC disconnectors |
| Connection type AC side | 1 AC plug Wieland RST 25I3S (96.031.4154.3) [5)] |
| Connection type DC side | 2 pair DC plugs Multi-contact MC4 [5)] |

| Communication | H5A Flex |
|---|---|
| Communication interfaces | Wi-Fi |
| Display | None |
| Data visualization | DeltaSolar app, MyDeltaSolar Cloud |
| Display of operating status | 3 LEDs |

| Safety / Standards | H5A Flex |
|---|---|
| Protection class | IP65 |
| Safety class | I |
| Configurable trip parameters | Yes |
| Insulation monitoring | Yes |
| Overload behavior | Current limitation, power limitation |
| Anti-islanding protection/grid regulation | VDE 0126-1-1; VDE-AR-N 4105; EN 50438 2013:Netherlands, C10/11 |
| EMC | EN61000-6-2; EN61000-6-3 |
| Safety | IEC 62109-1/-2; CE compliance |

1) Cos Phi = 1 (VA = W)
2) Whether the maximum apparent power can be achieved depends on the environmental conditions.
3) AC voltage and frequency range are programmed based on the respective country regulations.
4) Mounting plate included in scope of delivery
5) Included in scope of delivery

**Email: solarsales.emea@deltaww.com**

**Telephone: +49 7641 455 547** (phone number in Germany)