



H5A Flex

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



30 V ↑

Wide input voltage range
(30 to 600 V)

- IP65 aluminum housing for long-lasting protection against moisture and corrosion
- Compact design with exceptional power density for easy installation

98.3%

Peak efficiency

- Grand confort 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



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