



H5A Flex

High efficiency single phase inverters with Wi-Fi -
Perfect choice for residential PV systems

Versatile applications

- Aluminium housing ensures long lasting protection against moisture and corrosion
- Wide input voltage range (30-600 V)
- Ultra low startup voltage at 35 V
- Suitable for indoor and outdoor applications (IP65)
- Compact design for simplified installation
- Low noise emission <20 dB(A)
- Built-in Wi-Fi communication

Maximum profitability

- Peak efficiency of 98.3%
- Fanless design
- 2 MPP trackers
- Commissioning via Wi-Fi connection

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5.0 kVA solar inverters

Technical data H5A Flex

INPUT (DC)	H5A Flex
Max. recommended PV power	6.3 kW _p
Maximum power	5.28 kW
Voltage range	30 ... 600 V
MPP operating voltage range	30 ... 550 V
Voltage range for maximum power	240 ... 500 V
Max. current	11 A per MPP / 22 Adc total
Max. number of MPP trackers	Parallel inputs: 1 MPP tracker Separate inputs: 2 MPP trackers
Input load	≤ 4.25 kW per MPP tracker; symmetrical and asymmetrical (4/96 %)

OUTPUT (AC)	H5A Flex
Maximum apparent power	5 kVA ^{1) 2) 3)}
Nominal apparent power	5 kVA
Voltage range	230 -20%/+22%, 1 Phase (L, N, PE) ³⁾
Nominal current	24 A
Nominal frequency	50 / 60 Hz
Frequency range	50 / 60 Hz ± 5 Hz ³⁾
Power factor adjustable	0.8 cap ... 0.8 ind
Total harmonic distortion (THD)	< 3 % @ nominal apparent power

GENERAL SPECIFICATION

Model name	H5A_220
Part number Delta	RPI502H220000
Max. efficiency	98.3%
Efficiency EU	98.0%
Operating temperature	-25 ... +60 °C
Nominal power without derating	-25 ... +40 °C
Storage temperature	-25 ... +60 °C
Humidity	0 ... 95% non-condensing
Max. operating altitude	2000 m (above sea level)
Standard guarantee	5 years (guarantee extension available upon request)

MECHANICAL DESIGN

Size (H x W x D)	318 x 380 x 130 mm
Weight	12 kg
Cooling	Convection cooling
AC connector	Wieland RST 25I3S (96.031.4154.3)
DC connector	2 pair Multi-Contact MC4
Communication interfaces	Wi-Fi
DC disconnect	Integrated
Display	Data visualization via mobile device app

SAFETY / STANDARDS	H5A Flex
Protection degree	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
EMC	EN61000-6-2; EN61000-6-3
Safety	IEC62109-1 / -2; CE compliance

- 1) Cos Phi = 1 (VA = W)
- 2) 4.6 kW for Germany
- 3) AC voltage and frequency range will be programmed according to the individual country requirements.

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