

H3A 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 97.5%
- Fanless design
- 2 MPP trackers - symmetrical and asymmetrical loading possible (0/100% or 100/0%)
- Commissioning via Wi-Fi connection

3.0 kVA solar inverters

Technical data H3A Flex

INPUT (DC)	H3A Flex
Max. recommended PV power	3.6 kW _p
Maximum power	3.19 kW
Voltage range	30 ... 600 V
MPP operating voltage range	30 ... 550 V
Voltage range for maximum power	180 ... 500 V
Max. current	11 A each MPP / 18 A total
Max. number of MPP trackers	Parallel inputs: 1 MPP tracker Separate inputs: 2 MPP trackers
Input load	≤ 3.19 kW per MPP tracker, symmetrical and asymmetrical (0/100% or 100/0%)

OUTPUT (AC)	
Maximum apparent power	3 kVA ^{1) 2)}
Nominal apparent power	3 kVA
Voltage range	230 -20%/+22%, 1 Phase (L, N, PE) ³⁾
Nominal current	14.3 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

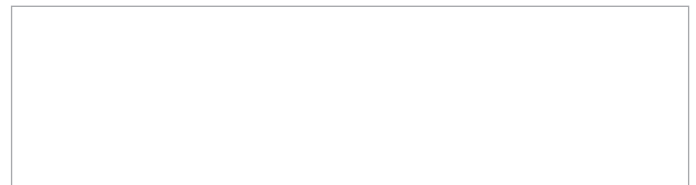
Model name	H3A_220
Part number Delta	RPI302H220000
Max. efficiency	97.5%
Efficiency EU	96.8%
Operating temperature	-25 ... +60 °C
Nominal power without derating	-25 ... +40 °C
Storage temperature	-25 ... +60 °C
Humidity	0 ... 95% non-condensing
Max. operating altitude	2000 m (above sea level)
Standard guarantee	5 years (guarantee extension available upon request)

MECHANICAL DESIGN

Size (H x W x D)	318 x 380 x 130 mm
Weight	10 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 disconnecter	Integrated
Display	Data visualization via mobile device app

SAFETY / STANDARDS	H3A 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) The maximum AC apparent power indicates the power an inverter is able to deliver. The maximum apparent power may not necessarily be reached.
- 3) AC voltage and frequency range will be programmed according to the individual country requirements.



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