



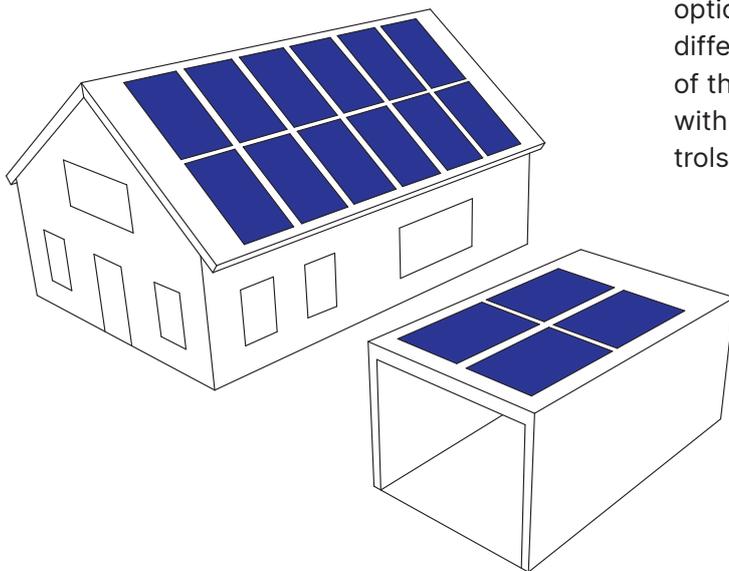
## H Series – single-phase solar inverters

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

# Highlights

The DeltaSolar app makes it easy to commission your inverter. Your smartphone (Android or iOS) connects directly to the inverter

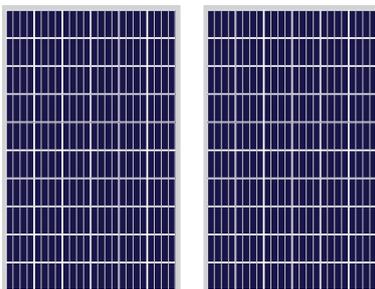
The DeltaSolar app then keeps you informed of the current operating status without the need for an Internet connection. As an alternative, you can also access the MyDeltaSolar Cloud via the Internet to access your system information from anywhere.



With the H3A, H4A and H5A devices, you have the option of distributing the two module strings on two differently aligned surfaces. For example, the majority of the modules can be placed on the roof of the house, with the remainder on the garage. The inverter controls both module areas independently of each other.



Installation even in the smallest of spaces. Start with two modules in one string. You can easily expand later.



- Aluminium housing for long-lasting protection against moisture and corrosion
- Wide input voltage range
- Very low start-up voltage (35 V)
- Suitable for indoor and outdoor use
- Compact design with exceptional power density for easy installation
- Low noise emission
- Peak efficiency of up to 98.8%
- Fanless design
- Commissioning via Wi-Fi connection

# Technical Data

Input (DC)	H2.5 Flex	H3A Flex	H4A Flex	H5A Flex
Max. Power	2.6 kW	3.19 kW	4.32 kW	5.28 kW
Operating voltage range	30 to 500 V <sub>DC</sub>	30 to 600 V <sub>DC</sub>		
MPP voltage range	30 to 500 V <sub>DC</sub>	30 to 550 V <sub>DC</sub>		
MPP voltage range with max. Power	240 to 470 V <sub>DC</sub>	180 to 500 V <sub>DC</sub>	240 to 500 V <sub>DC</sub>	240 to 500 V <sub>DC</sub>
Maximum current (per MPP tracker/total)	11 A / 11 A	11 A / 18 A		
Max. number of MPP trackers	1	2		
Max. number of module strings per MPP tracker	1	1		
Output (AC)	H2.5 Flex	H3A Flex	H4A Flex	H5A Flex
Max. apparent power <sup>1) 2)</sup>	2.5 kVA	3.0 kVA	4.0 kVA	5.0 kVA
Nominal apparent power <sup>2)</sup>	2.5 kVA	3.0 kVA	4.0 kVA	5.0 kVA
Voltage range <sup>3)</sup>	230 V <sub>AC</sub> -20%/+22%, single-phase (L, N, PE)			
Nominal current	10.9 A	13 A	17.4 A	22 A
Frequency range <sup>3)</sup>	50/60 Hz ± 5 Hz			
Adjustment range of power factor	0.8 cap to 0.8 ind			
Total harmonic distortion (THD)	< 3% at nominal apparent power			
General Specifications	H2.5 Flex	H3A Flex	H4A Flex	H5A Flex
Delta model name	H2.5_210	H3A_220	H4A_220	H5A_220
Delta part number	RPI252H210000	RPI302H220000	RPI402H220000	RPI502H220000
Peak efficiency	97.5%	97.5%	97.5%	98.3%
Efficiency EU	96.8%	96.8%	96.8%	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 warranty	5 years (warranty extension available upon request)			
Mechanical design	H2.5 Flex	H3A Flex	H4A Flex	H5A Flex
Dimensions (H x W x D)	318 × 380 × 130 mm			
Weight	10 kg	10 kg	11 kg	12 kg
Cooling	Natural convection, without fans			
Mounting options	Wall mounting <sup>4)</sup>			
Disconnectors	1 mechanical DC disconnecter			
Connection type AC side	1 AC plug Wieland RST 25I3S (96.031.4154.3) <sup>5)</sup>			
Connection type DC side	1 pair DC plugs Multi-contact MC4 <sup>5)</sup>	2 pairs DC plugs Multi-contact MC4 <sup>5)</sup>		
Communication	H2.5 Flex	H3A Flex	H4A Flex	H5A Flex
Communication interfaces	Wi-Fi			
Display	None			
Data visualization	DeltaSolar app, MyDeltaSolar Cloud			
Display of operating status	3 LEDs			

# Technical Data

Safety/ Standards	H2.5 Flex	H3A Flex	H4A Flex	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	EN 61000-6-2; EN 61000-6-3			
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

## Contact



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