



## M20A Flex

High-efficiency three-phase solar inverters for residential and commercial PV systems.



Wide input voltage range  
(200 to 1000 V)

- Low noise levels — perfect for use in PV systems on residential or commercial buildings
- Stable performance up to 50 °C ambient



Peak efficiency

- 2 MPP trackers for more flexibility when designing the PV system
- Commissioning and monitoring with smartphone app via integrated Wi-Fi

# 22 kVA solar inverters

Input (DC)	M20A Flex	Communication	M20A Flex
Max. input voltage <sup>1)</sup>	1000 V <sub>DC</sub>	Communication interfaces	2 x RS485, 1 x dry contact, 1 x external power-off, 6 x digital inputs, Wi-Fi
Operating voltage range	200 to 1000 V <sub>DC</sub>	Data visualization	DeltaSolar app, MyDeltaSolar Cloud
MPP voltage range	200 to 1000 V <sub>DC</sub>	Display of operating status	3 LEDs
MPP voltage range with max. power	460 to 900 V <sub>DC</sub>		
Nominal voltage	600 V <sub>DC</sub>		
Max. current (per MPP tracker/total)	26 A/48 A		
Max. short-circuit current I <sub>SC</sub>	50 A per MPP tracker		
Max. number of MPP trackers	2 x 2 module strings		
DC surge protection devices	Type 2 (EN 50539-11), replaceable		
Output (AC)	M20A Flex	Safety / Standards	M20A Flex
Max. apparent power <sup>2)</sup>	22 kVA	Protection class	IP66
Max. active power <sup>2)</sup>	22 kW	Safety class	I
Nominal apparent power <sup>2)</sup>	20 kVA	Configurable trip parameters	Yes
Voltage range <sup>3)</sup>	230/400 V <sub>AC</sub> -20%/+30%; 3 ph. + PE or 3 ph. + N + PE	Insulation monitoring	Yes
Max. output current	32 A	Overload behavior	Current limitation, power limitation
Frequency range <sup>3)</sup>	50/60 Hz ± 5 Hz	Anti-islanding protection/grid regulation	VFR 2019 (Enedis-PRO-RES_10E, Enedis-PRO-RES_64E), VDE-AR-N 4105, EN 50549-1, C10/11, Netbeheer NL
Adjustment range of power factor	0.8 cap to 0.8 ind	EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12
Total harmonic distortion (THD)	< 3% at nominal apparent power	Safety	IEC 62109-1/-2; CE compliance
Consumption in night mode <sup>4)</sup>	< 2 W		
AC surge protection devices	Type 2 (EN 61463-11), replaceable		
General specifications	M20A Flex		
Delta model name	M20A_220		
Delta part number	RPI203M220100		
Peak efficiency	98.5%		
Efficiency EU	98.1%		
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 100%, non-condensing		
Max. operating altitude	4000 m (above sea level)		
Topology	Without transformer		
Standard warranty	5 years (warranty extension available upon request)		
Mechanical design	M20A Flex		
Dimensions (H x W x D)	651 × 520 × 220 mm		
Weight	40.5 kg		
Cooling	Natural convection		
Mounting options	Wall mounting <sup>5)</sup>		
Disconnectors	1 mechanical DC disconnectors		
Connection type AC side	1 AC plug <sup>6)</sup>		
DC connection type	4 pairs of DC plugs Amphenol H4 <sup>6)</sup>		

- 1) The max. voltage withstand is 1000 VDC. The inverter starts working when the input voltage drops below 1000 VDC.
- 2) Cos Phi = 1 (VA = W)
- 3) AC voltage and frequency range are programmed based on the respective country regulations.
- 4) Night-time consumption with standby communication
- 5) Mounting plate included in scope of delivery
- 6) Included in scope of delivery

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