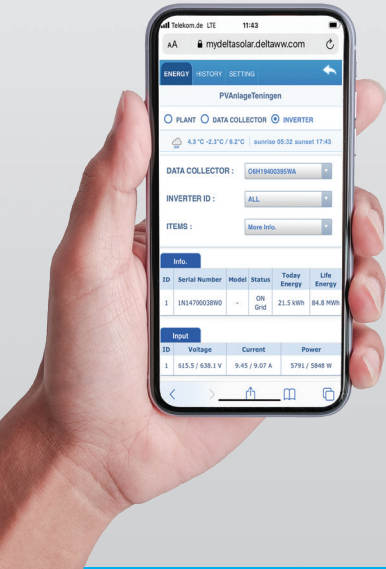


Bluetooth®



PLC



## Solar Inverter DP225U / DP350U

Maximum power with Delta's new 1500 VDC inverters for large solar power plants with PLC communication

# Highlights



DP225U: 8 MPP trackers for up to 16 module strings



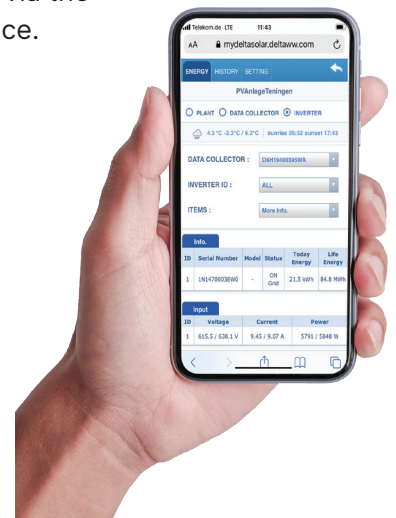
DP350U: 12 MPP trackers for up to 24 module strings



PLC100 converter for PLC communication with monitoring systems

- 40A DC input current for fuseless design and high DC/AC ratio
- 8 or 12 MPP trackers for optimized handling of shading
- Advanced MPP tracker function
- Automatic DC isolating switches
- 2 communication channels via RS485 or PLC
- Separated AC wiring box for easy and flexible connection
- Reactive power compensation 24/7
- Data point collection for string monitoring and I-V curve generation
- Arc fault and reverse polarity protection
- Anti-PID feature
- Waveform recorder

Convenient commissioning and setup using the DeltaSolar smartphone app via the Bluetooth interface.



# Technical Data

Input (DC)	DP225U	DP350U
Maximum input power (per MPP tracker/total)	44 / 230 kW	44 / 360 kW
Max. input voltage	1500 V <sub>DC</sub>	
Operating voltage range	500 to 1500 V <sub>DC</sub>	
MPP voltage range	500 to 1500 V <sub>DC</sub>	
MPP voltage range with maximum power	850 to 1350 V <sub>DC</sub>	
Nominal voltage	1150 V <sub>DC</sub>	
Maximum current (per MPP tracker/total)	40 A / 320 A	40 A / 480 A
Maximum short-circuit current I <sub>SC</sub>	40 A per MPP tracker	
Maximum number of MPP trackers	8	12
Max. number of module strings per MPP tracker	2	
String fuses	Not needed	
DC surge protection devices	Type 2 (EN 50539-11), not replaceable	

Output (AC)	DP225U	DP350U
Maximum apparent power <sup>1)</sup>	225 kVA	350 kVA
Maximum active power <sup>2)</sup>	225 kW	350 kW
Rated apparent power <sup>1)</sup>	225 kVA	350 kVA
Voltage range <sup>3)</sup>	800 V -20%/+15%, 3 phases + PE (Δ)	
Maximum current	165 A	253 A
Frequency range <sup>3)</sup>	50/60 Hz ± 5 Hz	
Power factor adjustment range	0.8 cap to 0.8 ind	
Total harmonic distortion (THD)	< 3% at nominal apparent power	
Consumption in night mode <sup>4)</sup>	< 8 W	
AC surge protection devices	Type 2 (EN 61463-11), not replaceable	

General Specifications	DP225U	DP350U
Peak efficiency	99.0%	99.0%
EU efficiency	98.8%	98.8%
Operating temperature range	-30 to +60°C	
Temperature range without power derating	-30 to +50°C	
Storage temperature range	-25 to +60 °C	
Relative humidity	0 to 100%, non-condensing	
Max. operating height	4000 m (above sea level)	
Topology	Without transformer	
Standard warranty	5 years (warranty extension available upon request)	

Mechanical details	DP225U	DP350U
Dimensions (H x W x D)	765 × 1220 × 397 mm	925 × 1210 × 370 mm
Weight	122 kg	152 kg
Cooling	Replaceable fan module	
Mounting options	Suspended <sup>5)</sup>	
DC isolating switches	3 x automatic	4 x automatic
Connection type AC side	Single raw terminal with bolts; DP350U: optional double raw terminal	
Cable specification AC side	Cu: 85 to 300 mm <sup>2</sup>	Cu: 175 to 400 mm <sup>2</sup>
	Al: 125 to 300 mm <sup>2</sup>	Al: 250 to 400 mm <sup>2</sup>
Connection type DC side	Amphenol H4 Pro <sup>6)</sup>	

# Technical Data

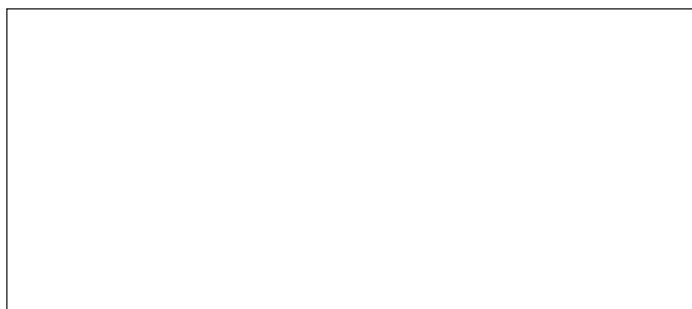
Communication	DP225U	DP350U
Communication interfaces	2 x RS485, 2 x dry contacts, 1 x external power-off, 6 x digital inputs, Bluetooth®, PLC (PLC100 converter required)	
Data visualization	DeltaSolar app, MyDeltaSolar Cloud	
Display of operating status	3 LEDs	

Safety/Standards	DP225U	DP350U
Degree of protection	IP66	
Safety class	I	
Configurable power-off parameters	Yes	
Insulation monitoring	Yes	
Overload behavior	Current limit, power limit	
Islanding protection/grid regulation	EN 50549-1, EN 50549-2, EN 50549-10, VDE-AR-N 4110/4120/4130	
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12	
Safety	IEC 62109-1/-2; CE compliance	

- 1) Cos Phi = 1 (VA = W)
- 2) The active power can be limited.
- 3) AC voltage and frequency ranges are programmed according to the respectively applicable national regulations.
- 4) Night time consumption with standby communication
- 5) Mounting plate included in scope of delivery
- 6) Required number of connectors included in scope of delivery

## Contact



**Email: [solarsales.emea@deltaww.com](mailto:solarsales.emea@deltaww.com)**

**Telephone: +49 7641 455 547** (phone number in Germany)