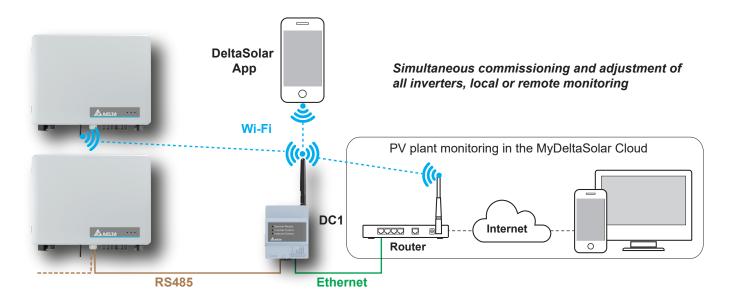


System monitoring with the DC1 data collector

- The DC1 data collector extends the functions for monitoring, controlling or adjusting Delta solar inverters.
- With an optional power meter, you also gain full control over self-consumption, energy consumption and feed-in power.
- The power meters also enable dynamic power control in residential, commercial and industrial PV systems.



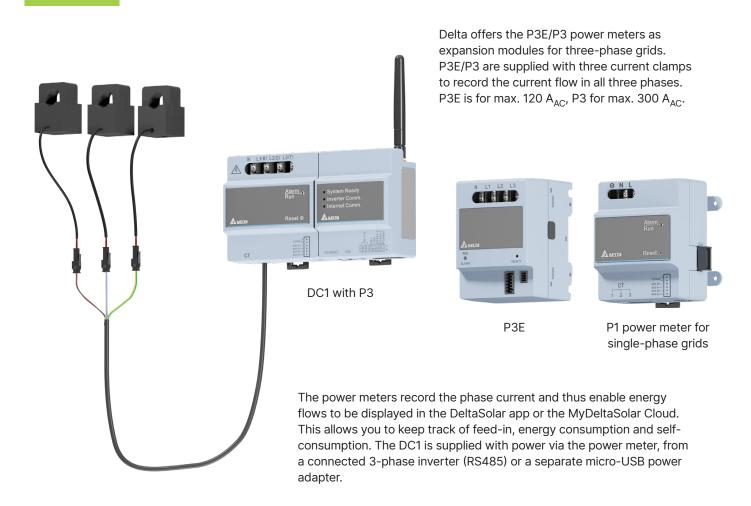
DC1 Data Collector



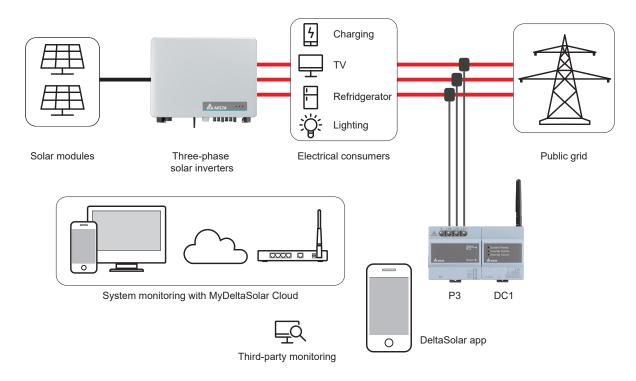
The DC1 data collector is the central communication interface in a solar PV plant with Delta inverters.

All inverters can be accessed via the DC1 using the DeltaSolar app or Delta Service Software.

Extension modules



System Overview



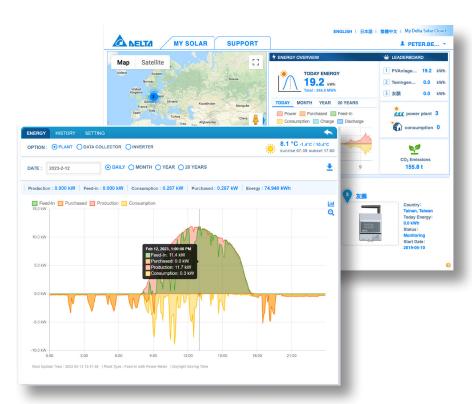
System overview for three-phase systems with DC1 data collector and P3 power meter

DeltaSolar App and MyDeltaSolar Cloud



The energy flows are clearly displayed graphically - for all inverters together or individually.

With the DeltaSolar app for iOS and Android, you can connect directly to an individual inverter or to all of them simultaneously via the DC1.



Technical Data

	DC1 Data Collector		
Electrical and mechanical data			
Supply voltage	Alternative: Power supply via P1/P3.		
via RS485 connector	9to25V _{DC} /5W		
via micro USB	5 V _{DC} / 5 W		
Connections	Wi-Fi, Ethernet, 2x RS485, Micro-USB, USB A		
Max. Number of controllable inverters	RS485: 32; Wi-Fi: 9; mixed RS485 + Wi-Fi: 32		
Operating temperature range	-25 to +60 °C		
Degree of protection	IP20		
Dimensions (W x H x D) with / without antenna	72 x 106 x 55 mm / 72 x 186 x 55 mm		
Wi-Fi			
Network standards	IEEE 802.11b / 802.11g / 802.11n		
Data rates	IEEE 802.11b: 1 to 11 Mbps / IEEE 802.11g: 6 to 54 Mbps / IEEE 802.11n: 6.5 to 150 Mbps		
Modulation	OFDM (BPSK), QPSK, 16-QAM, 64-QAM; 802.11b (CCK / DSSS)		
Bandwidth	20 MHz / 40 MHz		
EMC and safety	EN 300 328, LP0002, Part 15C, Telec T66; EN 61010-1, CE compliance		
Immunity (EMS)	EN 301 489-1/-17, EN 55024, EN 55032, FCC Part 15B		

	P1 Power Meter	P3E Power Meter	P3 Power Meter	
Delta part number	PPM P1_120	PPM P3E-000	PPM P3_120	
Number of phases	1	3	3	
Input voltage range	85 to 264 V _{AC}	180 to 264 V _{AC}	95 to 277 V _{AC}	
Nominal voltage	L-N: 230 V _{AC} ; L-L: 400 V _{AC}			
Frequency range	50 ± 5 Hz / 60 ± 5 Hz			
Max. power of installed inverters	31.6 kVA at 264 V _{AC}	95 kVA at 264 V _{AC}	249 kVA at 277 V _{AC}	
Self-consumption	2 W	3 W	3 W	
Current transformer	120 A	120 A	300 A	
Max. cable diameter of the current transformer	15 mm	15 mm	23 mm	
Operating temperature range	-20 to +60 °C	-20 to +50 °C	-20 to +60 °C	
Degree of protection	IP20			
Dimensions power meter (W x H x D)	72 x 90 x 55 mm	70 x 93 x 66.5 mm	90 x 90 x 55 mm	
Dimensions current transformer (W x H x D)	27 x 30 x 45 mm	27 x 30 x 45 mm	46,5 x 68 x 35,5 mm	
Communication interfaces	RS485			
EMC and safety	EN61010-1, EN61326, CE Conformity			
Measurement accuracy	Class I			

Contact

E-mail: solarsales.emea@deltaww.com

solarsolutions.delta-emea.com