



PV surplus charging with AC SMART

Charging solar power for a sustainable future

With PV surplus charging, self-generated electricity from a photovoltaic system can be used to charge EVs. The surplus electricity is used for charging processes instead of being fed into the public power grid.

PV surplus charging can be realized with an additional energy meter or the connection to the inverter via Modbus RTU/TCP. The function is integrated into the AC SMART VALUE and ADVANCED from our AC SMART-family.

Your benefits:

- Cost reduction
- Configurable via web server or mobile app
- Three charging modes adjustable
- No superior control unit necessary

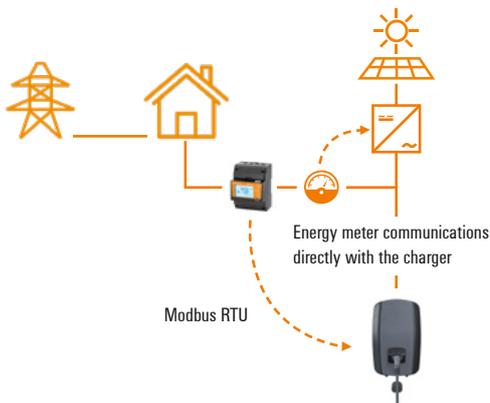
**CHARGE SOLAR POWER.
CHARGE FOR THE CHANGE.**



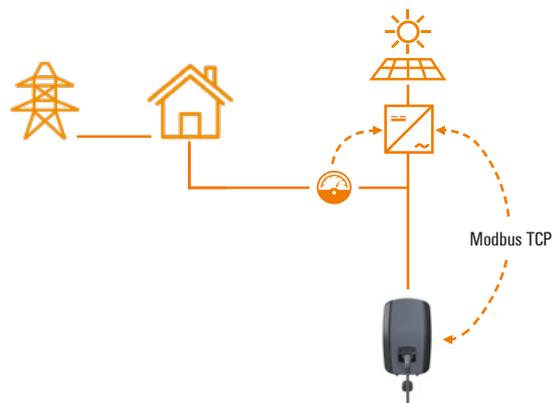
More information on our website:
www.weidmueller.com/pv-charging

Realisation of PV surplus charging

With bidirectional energy meter or direct connection of the inverter



Opportunity 1: Using a additional bidirectional energy meter



Opportunity 2: Direct communication to the inverter

You can find all articles here:

Type	Max. charging power/max. charging current	Connection system	Order no.
AC SMART VALUE			
CH-W-S-A11-S-V	11 kW / 16 A	Socket outlet type 2	2875220000
CH-W-S-A11-S-V	11 kW / 16 A	Charging cable type 2, 5 metres, straight	2875240000
CH-W-S-A11-P7.5-V	11 kW / 16 A	Socket outlet type 2, 7.5 metres, straight	2911240000
CH-W-S-A11-P10-V	11 kW / 16 A	Socket outlet type 2, 10 metres, straight	2911250000
AC SMART ADVANCED			
CH-W-S-A11-S-A	11 kW / 16 A	Socket outlet type 2	2875260000
CH-W-S-A11-P-A	11 kW / 16 A	Charging cable type 2, 5 metres, straight	2875280000
CH-W-S-A11-P7.5-A	11 kW / 16 A	Socket outlet type 2	2911280000
Type	Connected load	Measurement	
Energy meter			
EM122-RTU-2P	<= 100 A	Direct measurement	7760051003
EM120-RTU-2P	> 100 A	Measurement with electricity meter	7760051004



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With **PV Next**, Weidmüller offers the world's first combiner box concept based on a standardised printed circuit board design.

The advantages: simplicity, safety, time savings, and cost reduction.



Die neue Generation Generatoranschlusskästen:

- High flexibility thanks to scalable design
- Easy installation without crimping and without special tools
- Prevention of faulty connections and reduction of risks

The perfect complement for maximum safety:

The matching surge protection from the Weidmüller portfolio.



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