12/2024

GridParity AG
next generation photovoltaic

UrbanPV

Decentralized PV Power Generation and Use

Dr. Erich Merkle, CEO GridParityAG

UrbanPV | Decentralized PV power generation in urban environments

Advantages:

- very low-priced power generation (0.03 €) close to the point of consumption
- direct use often without expensive lines and transformers
- batteries as back-up enable a high degree of self-use
- protection against blackouts and other disruptions

➢ **The GridParity concepts are directly realizable and economically attractive!**

UrbanPV | we have workable solutions

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Housing	 TERRACEPV	 CARPORTPV	 ROOFPV	 FACADEPV			
Industry & Business	 CITYPV	 SHOPPV	 OFFICEPV	 HOTELPV	 MARKETPV		
Sports & Recreation	 SCHOOLPV	 PLAYGROUNDPV	 GOLFPV	 SPORTPV	 CAMPINGPV	 POOLPV	
Traffic	 PARKINGPV	 CHARGEPV	 BIKEPV	 AGORAPV			
Vegetation	 AGRIPV	 URBANFARMINGPV	 GARDENPV	 FARMPV			

Agora PV Modules | Proudly Made in Slovakia

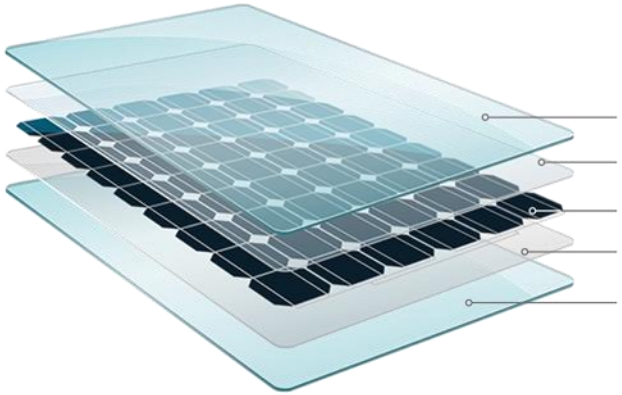
B60 (330 Wp)
Art.Nr: M2633
Doppelglas Modul mit M3 bif. Zellen
1684 x 1002 x 5 mm

B72 (400 Wp)
Art.Nr: M2740
Doppelglas Modul mit M3 bif. Zellen
2000 x 1002 x 5 mm

B40 (250 Wp)
Art.Nr: M2325
Doppelglas Modul mit M6 bif. Zellen
1684 x 1002 x 5 mm

B40/10 (305 Wp)
Art.Nr: M7430
Doppelglas Modul mit M10 bif. Zellen
2105 x 1043 x 5 mm

Many more modules at : https://www.gridparityag.com/module



Extremely stable:

- **< 2 mm tempered solar glass**
- POE (polyolefin encapsulant)
- Solar cell
- POE (polyolefin encapsulant)
- **< 2 mm tempered solar glass**

EN12600
Certified double-glass modules for overhead installation

GridParity makes the difference!

Case Study | Carparks at recreation areas

- **Heat reduction** through double-glazed modules and carport kits
- **Aesthetics** for parking areas too: Bright halls instead of dark caves
- Investment costs approx. €1,650 per kWp

Case Study PV-Parking in Germany

PV Parking in Germany	Plettenberg	Soest
Installed capacity [kWp]	303	210
Investment [€]	499.950	346.500
Yield [kWh p.a.]	287.850	220.500
Price self consumption (0,25€)	71.963	55.125
Payback Period [years]	6,9	6,3

Design Carport | CURVE®

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- Particularly suitable for **high-speed parking** and high-traffic parking lots
- **Curved** steel supports
- **Bifacial** double-glazed modules
- **Tested statics**
- **Optimized center of gravity** with impact protection
- **High-quality** materials
- **Snow and wind load**: up to 120 kg/m^2
- available in **custom colors**

Case Study | PoolPV: PV Solution for recreation area

- **Limited use in hot weather:** Swimming pools, especially paddling pools and children's pools, can only be used to a limited extent on extremely hot summer days.
- **High energy consumption:** pools consume large amounts of energy.
- **Rising energy costs:** Until now, energy, especially gas, has been available at low cost for swimming pools, but prices are rising.

PoolPV	Cost/ performance	Yield kWh p.a.	Yield € p.a.*
Costs pent roof children's pool	23.000 €		
Connected load B72/6	22,5 kWp	24.150 kWh	4.830 €
Transparent modules	15,0 kWp	15.750 kWh	3.150 €
Costs gable roof (6xBP5)	37.000 €		
Connected load B72/6	27,0 kWp	28.350	5.670 €

Case Study | Climate protection and Electricity for Public and Commercial Areas

OfficePV	Cost/ performance	Yield kWh p.a.	Yield € p.a.*
Cost shaded alley	23.000 €		
Total Yield full power	60 kWp	63,000 kWh	15,000 €
Transparent modules	36 kWp	38,000 kWh	9,000 €
Investment	99.000 €		
Payback period years	Full power: 6.6	Transparent: 11	

Case Study | Shading and Electricity for Public and Commercial Areas!

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Simple profitability calculation	L	XL	XXL
Electricity yield after simulation PV Syst.	1.100 kWh/kWp	1.100 kWh/kWp	1.100 kWh/kWp
Total annual yield	534 MWh	682 MWh	713 MWh
Profitability calculation (payback) with constant yield 25 years			
Annual yield when using own electricity 0.15 €/kWh	**80.100 €**	**102.300 €**	**106.950 €**
Payback	**8,7 Jahre**	**7,5 Jahre**	**7,3 Jahre**

Case Study | SchoolPV: Protection & Education

SchoolPV	Cost/ performance	Yield kWh p.a.	Yield € p.a.*
A. Cost shaded alley	23.000 €		
Total Yield full power	15 kWp	15,800 kWh	3,950 €
B. Green Classroom	19 kWp	20,000 kWh	5,000 €
Investment	40.000 €		
Payback period years	A. Alley: 5,8	B. Classroom: 8	

Case Study | PV Solutions for Industrial Roofs

Case Study Industrial Roof Installation

Waste Recycling s.r.o.	Myto	Havlikov Brod
Installed capacity [kWp]	240	430
Investment [€] (800€/kWp)	192.000	344.000
Yield [kWh p.a.]	212.400	380.550
Price self consumption (0,17€)	36.108	64.694
Payback Period [years]	5,3	5,3

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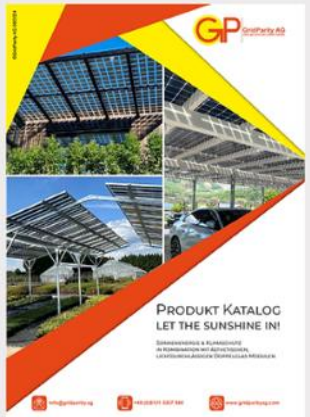
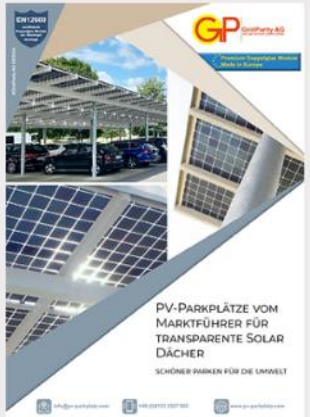


Produkt-Katalog
08/2024 | 44 Seiten | Deutsch/Englisch



PV-Parkplätze Katalog
08/2024 | 20 Seiten | Deutsch

AgriPV Katalog
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UrbanPV Katalog
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www.gridparityag.com/download