



AMPERE ENERGY

CHANGE YOUR ENERGY



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ENERGY

AMPERE ENERGY entwickelt und produziert ganzheitliche Energie-Management-Systeme basierend auf Lithium-Ionen Batteriespeichern

Die Produkte sind modular aufgebaut und skalierbar

Produktportfolio von Heimspeichern ab 3 kWh bis Komplettspeichersysteme für Gewerbe und Industrie mit Kapazitäten > 500 kWh

AMPi

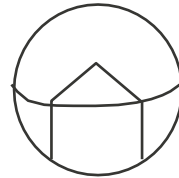
AMPERE ENERGY
erhöht Ihre Unabhängigkeit
und bietet

- mehr Funktionalität
- höherer Nutzungsgrad
- Garantie hochwertiger
Markenkomponenten
- wettbewerbsfähiger Preis

Alle Systeme AMPERE ENERGY besitzen
das intelligente Energie Management AMPi.

AMPi erlaubt eine präzise Steuerung der
Energie, die im Gebäude verbraucht, erzeugt,
gespeichert und die in den nächsten Stunden
benötigt wird.

Alle diese Daten werden mit dem individuellen
Benutzerprofil verknüpft und durch
wetterabhängige Parameter ergänzt.

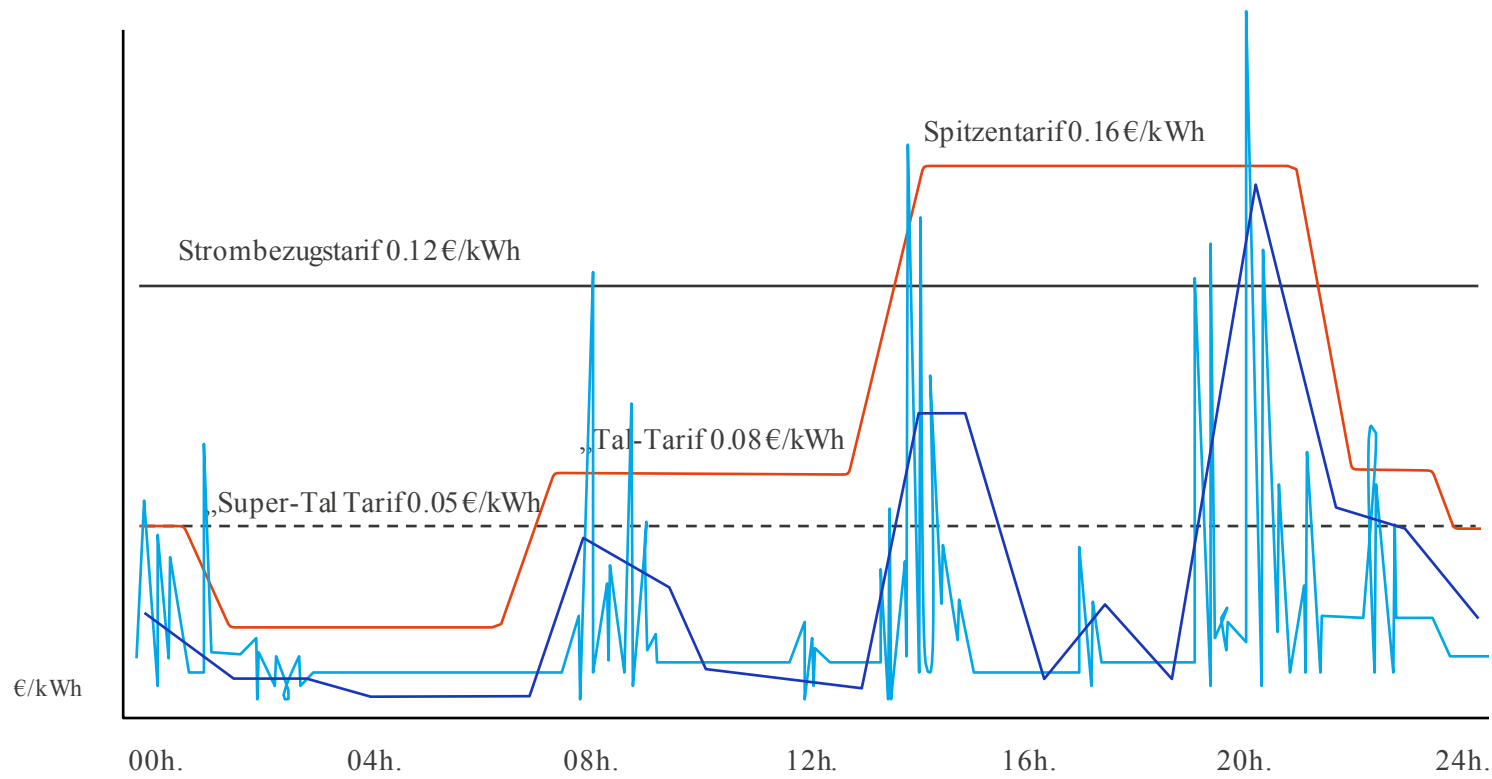


Zeitvariable Tarife
oder / und
Eigenverbrauchsoptimierung?



Strombedarfsprofil (Haushalt Spanien)

Mittlerer Strombedarf

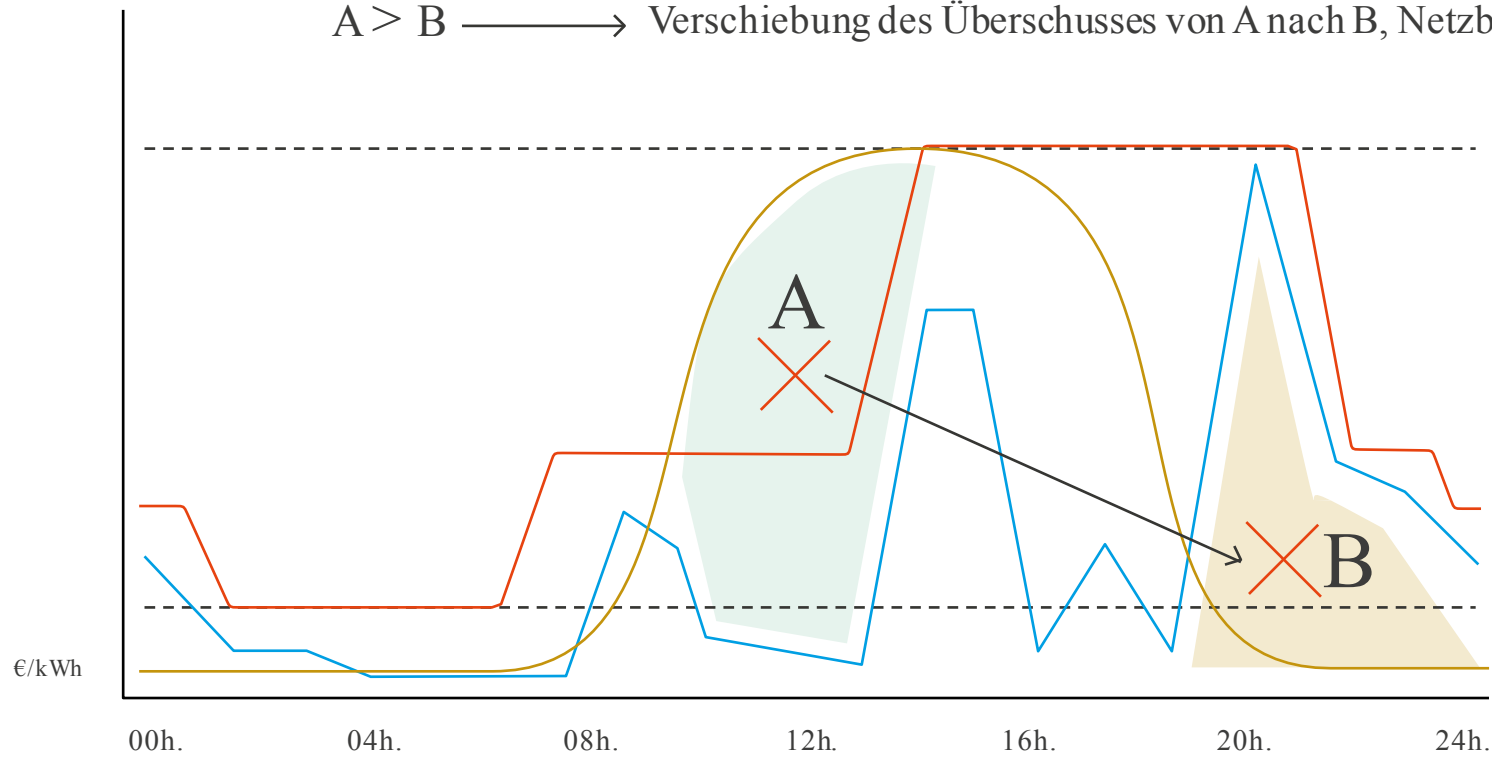


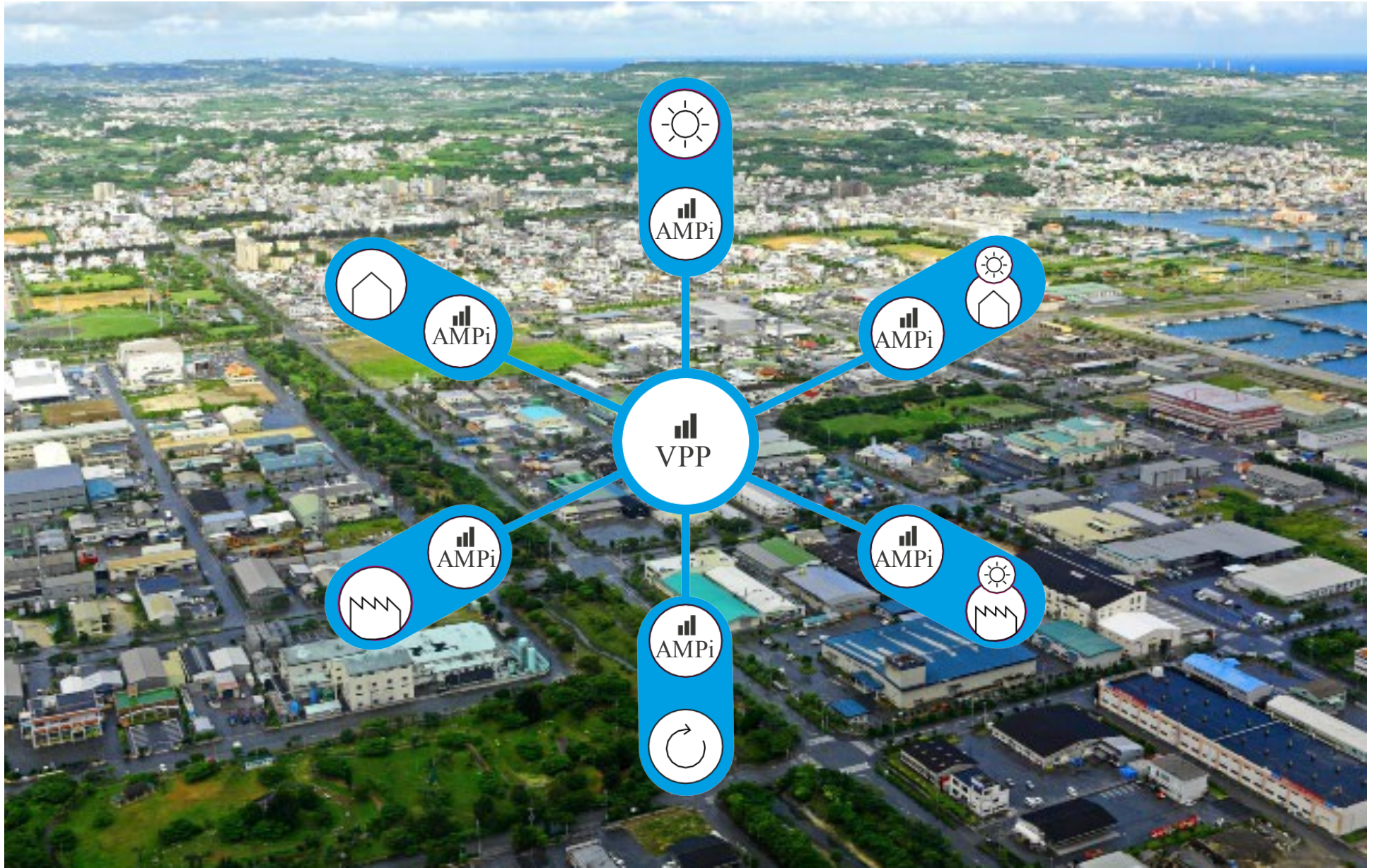


Zeitvariabler Tarif

Solarstromerzeugung (idealisiert)

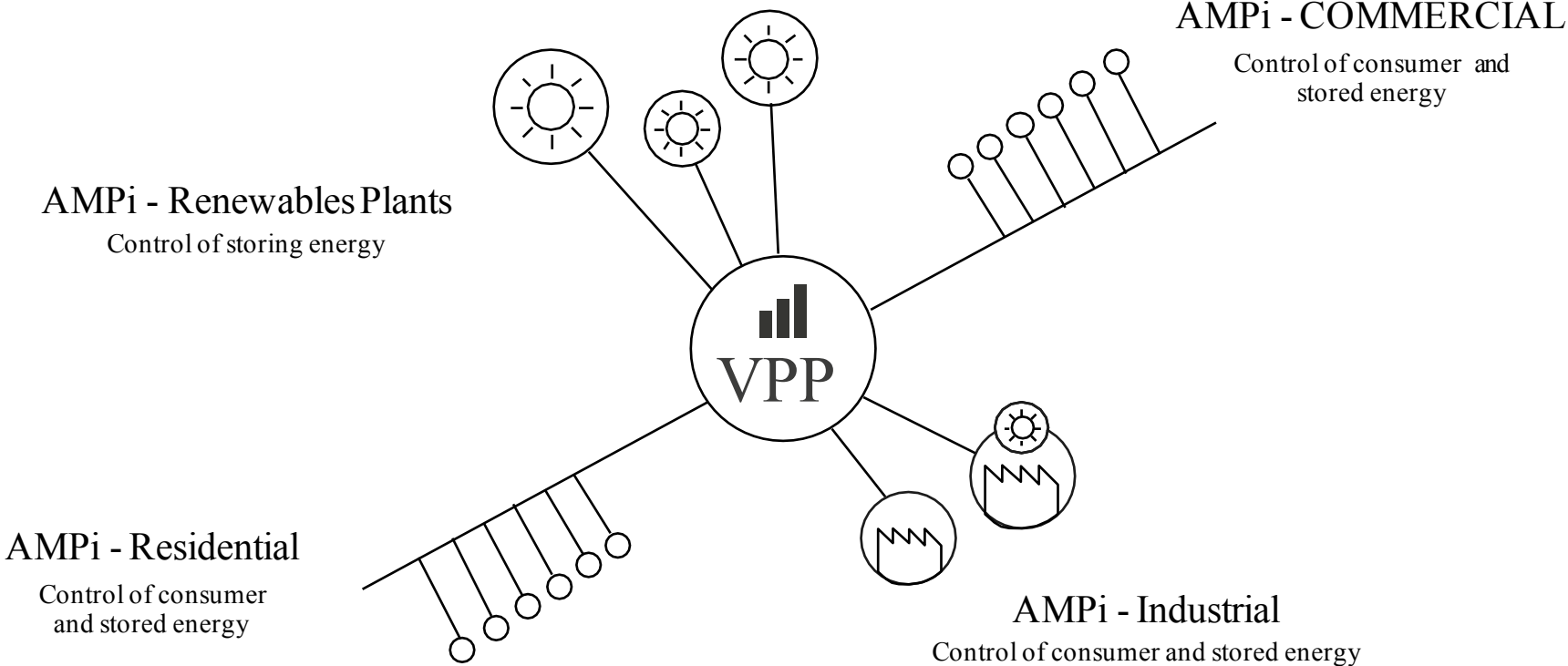
$A > B$ \longrightarrow Verschiebung des Überschusses von A nach B, Netzbezug B = 0



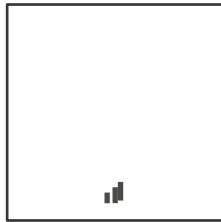


AMPERE VPP

Virtual Power Plant



Heimspeicher



SQUARE

3 - 6 kW
3 - 6 - 9 - 12 kWh

Verfügbar in
Deutschland:
Ab **Mai 2016**



SPHERE

3 kW
3 kWh

Verfügbar in
Deutschland:
Ab **Juni 2016**

Gewerbe

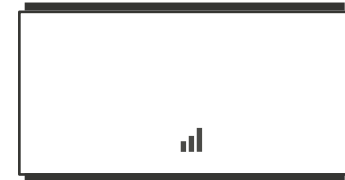


TOWER

60 kW
60 kWh

Verfügbar in
Deutschland:
Ab **Q3 / 2016**

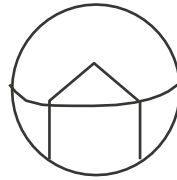
Industrie / Energieversorger



SHIP

600 kW
600 kWh

Verfügbar in
Deutschland:
Ab **Q4 / 2016**

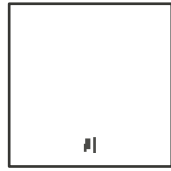


Heimspeicher



AMPERE SQUARE

Nutze deine eigene Energie



SQUARE

Allgemeine Daten:

Schutzklasse IP22

Round-trip Efficiency (AC-AC) > 90%

Abmessungen/Gewicht: 920 x 920 x 280 / 110 kg (6 kWh Variante)

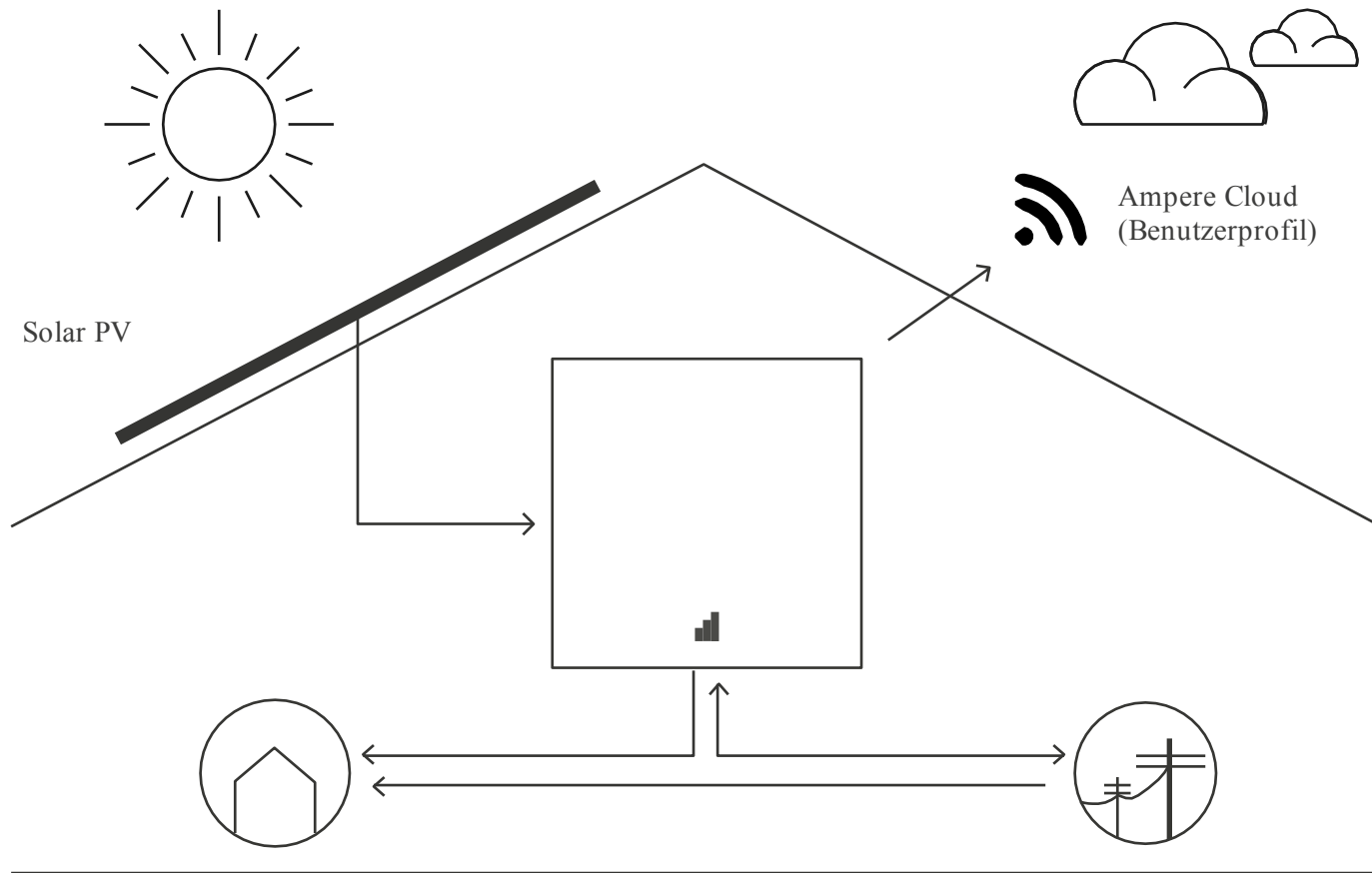
Betriebsmodi: Eigenverbrauchsmaximierung, Zeit/Lastvariable Tarife (Arbitrage), Mischbetrieb, Notstromversorgung (Optional)

Nominale Leistung: 3 kW / 5 kW

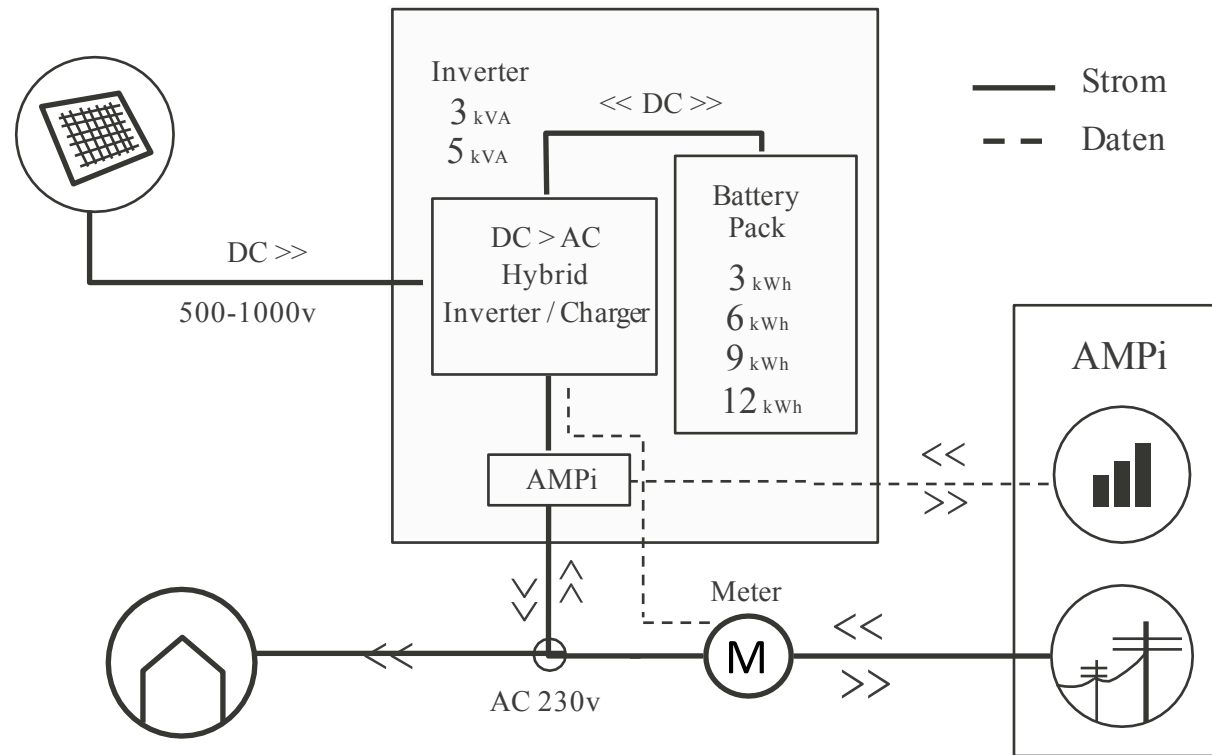
Nutzbare Speicherkapazität (kWh): 3 - 6 - 9 - 12 kWh

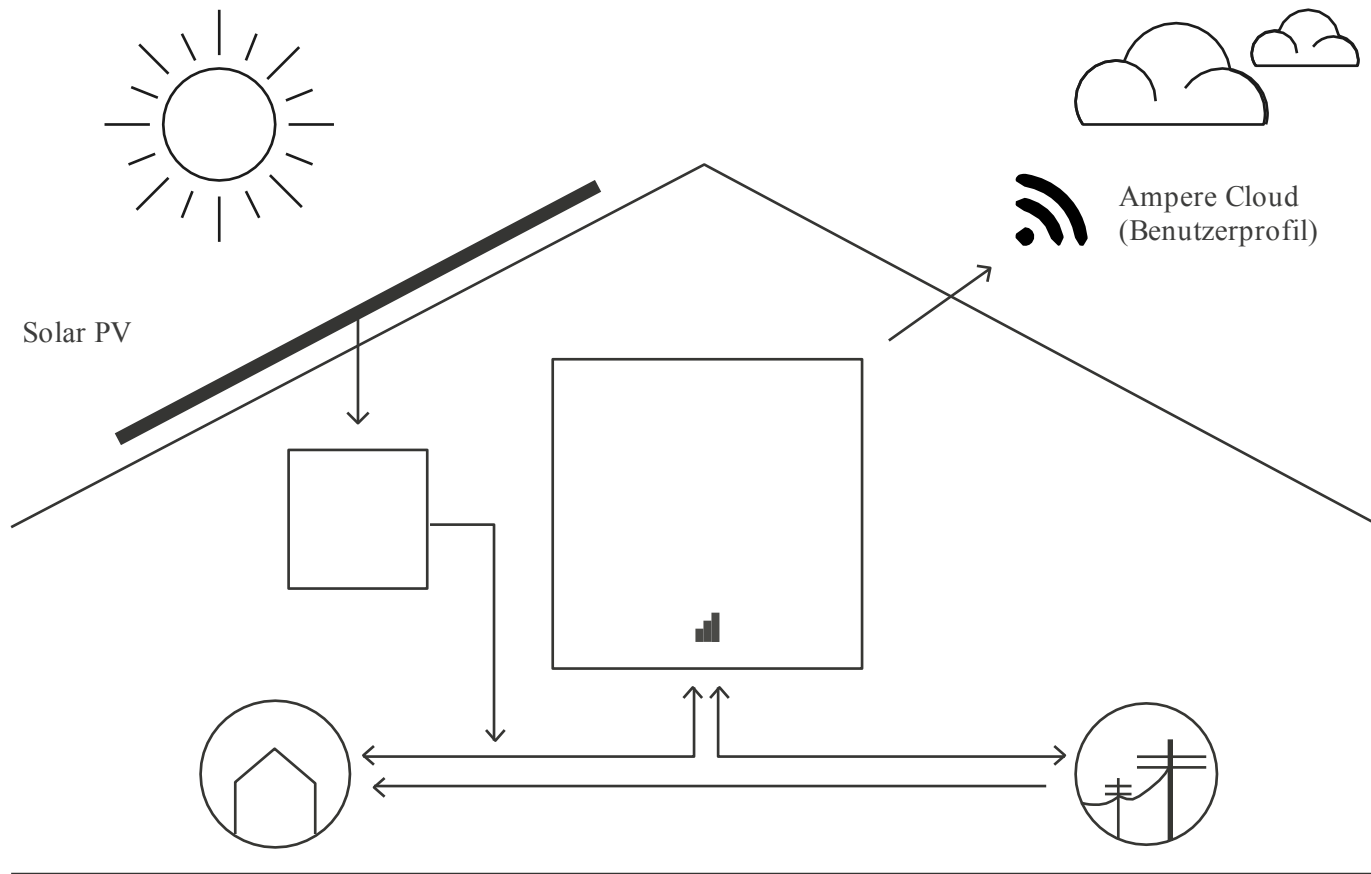
Batterietyp: Li-Ion (Polímero)

Konformität: KfW Programm 275 (Speicher), VDE – AR – 4105, CE / IEC 62619, IEC 62133, UN 38.3

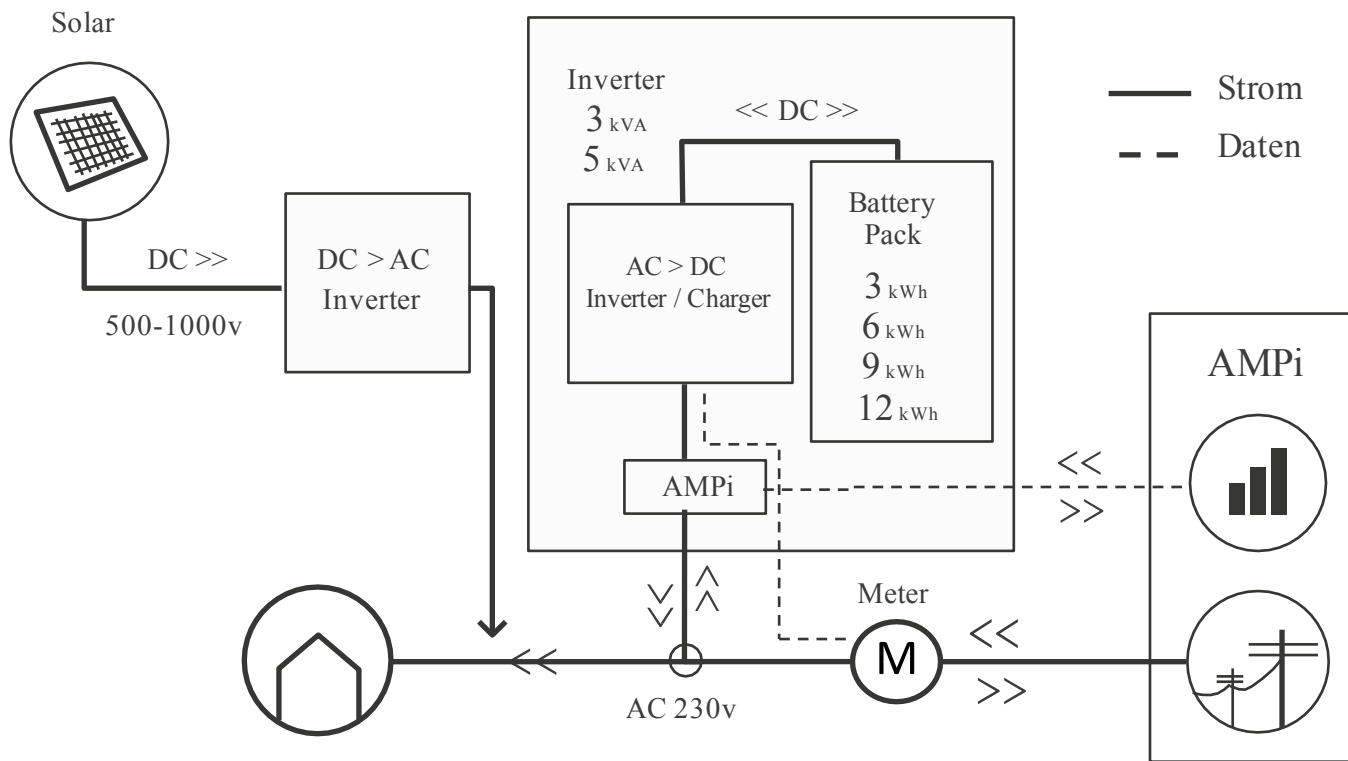


INSTALLATION MIT NEUER SOLAR PV - ANLAGE





INSTALLATION MIT EXISTIERENDER SOLAR PV - ANLAGE





 AMPERE SPHERE

Nutze deine eigene Energie



SPHERE

Allgemeine Daten:

Schutzklasse IP44

Round-trip Efficiency (AC-AC) > 89 %

Durchmesser / Gesamtgewicht: 680 mm / 85 kg (3 kWh Variante)

Betriebsmodi: Eigenverbrauchsmaximierung, Zeit/Lastvariable Tarife (Arbitrage), Mischbetrieb, Notstromversorgung (Optional)

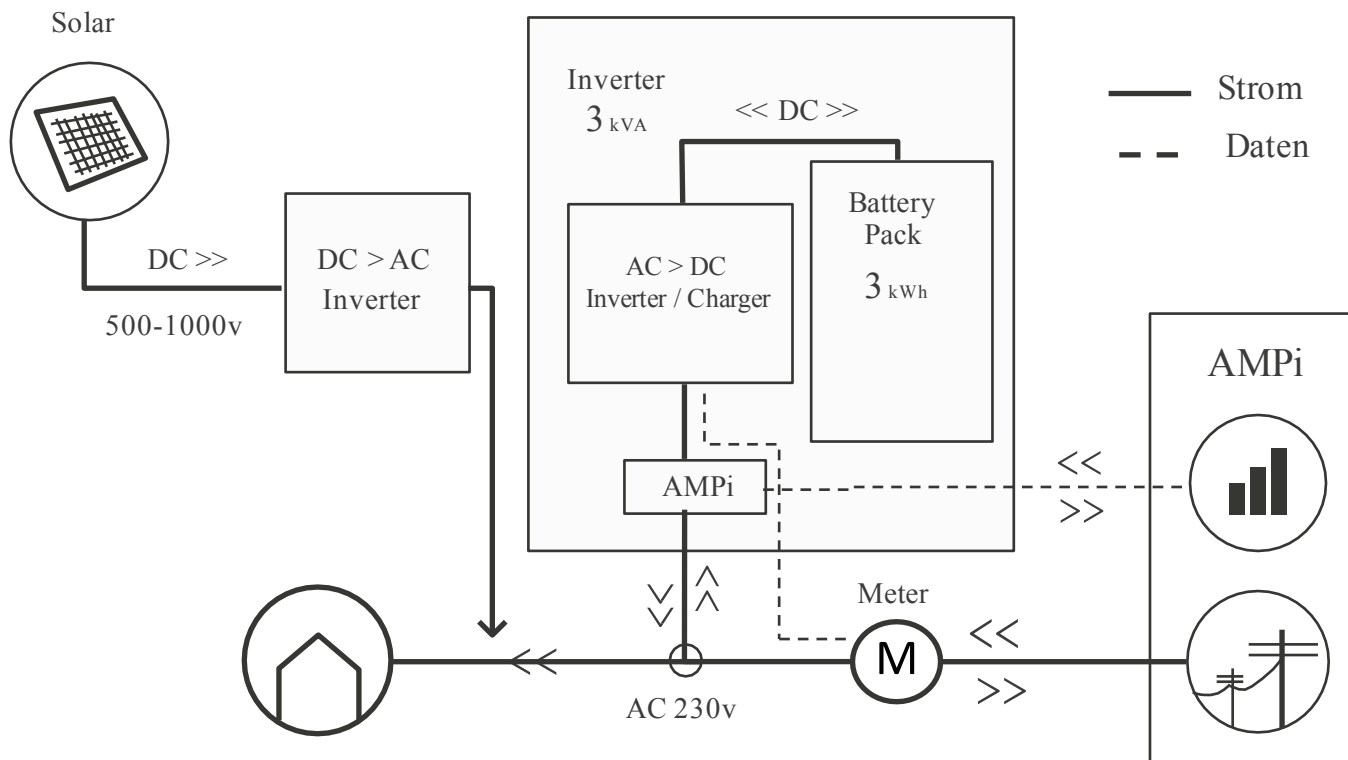
Nominale Leistung: 1,5 kW / 3 kW

Nutzbare Speicherkapazität (kWh): 3 kWh

Batterietyp: Li-Ion (Polymer)

Konformität: KfW Programm 275 (Speicher), VDE – AR – 4105, CE / IEC 62619, IEC 62133, UN 38.3





Zusammenfassung

AMPERE SPHERE und AMPERE SQUARE erlauben die Speicherung von Solarstrom und Strom aus anderen Erzeugungsquellen (z.B. BHKW) durch Lithium-Ionen-Batterien mit Speicherkapazitäten von 3 bis 12 kWh

Die intelligente Steuerung AMPi stellt eine Verbindung zur AMPERE Cloud-Lösung her über den DSL-Kundenanschluss. Der Kunde kann alle seine Daten in seinem Benutzerprofil über alle mobilen Endgeräte einsehen und unsere APP AMPERE Cloud verwenden.

Zur Erleichterung der Montage wiegen die einzelnen Komponenten maximal 30kg. Die Montage des Gerätes darf nur von einem von AMPERE zertifizierten Fachinstallateur durchgeführt werden. Der Wartungsaufwand ist durch die volle Fernwartungsfähigkeit stark reduziert.

Die Standard Garantie auf das Gesamtsystem beträgt 10 Jahre. Die Batteriezellen haben eine erwartete Lebensdauer von über 15 Jahren und mehr als 6.000 Lade- / Entladezyklen.

¿ Warum Produkte von AMPERE ENERGY?

- EINFACHE INSTALLATION („Plug & Work“)
- AUSGEWÄHLTE KOMPONENTEN HÖCHSTER QUALITÄT
- UNSCHLAGBARES PREIS-LEISTUNGS-VERHÄLTNIS
- INTUITIVE APP ZUR INTERAKTIVEN BETRIEBUNG
- VOLL FERNWARTUNGSFÄHIG
- STROMMARKT 2.0 “READY“
- "VPP READY"



AMPERE TEAM

Das AMPERE ENERGY Team besteht aus ausgewiesenen Experten mit langjähriger Erfahrung im Bereich erneuerbarer Energien, Regelungs- und Steuerungstechnik und der Automobilindustrie.

Neben dem Kerngeschäft der Entwicklung, Herstellung und Vermarktung innovativer Energieprodukte liegt die Kernexpertise des Führungsteams im Aufbau von Organisationen und Business Units für globale Energiemärkte.

Ampere verknüpft das breite Wissen des Energiemarkts, ein großes Netzwerk in der Energiewirtschaft mit dem Anspruch, seinen Kunden Produkte höchster Qualität und Service vor Ort zu bieten.

Neben Zugang zu Finanzierung ist dies die vertrauensvolle Basis, um Ihr Energiespeicher-Partner Partner von morgen zu werden.



Vicente López - Ibor Mayor / President

Doctor of Law, Co-founder and President of Lightsource Renewable Energy and Co-Founder and President of Ampere Energy; Professor of Law at the University of Comillas; Master in Business Administration; AMP IESE; He has studied at JFK School of Government at Harvard University and Harvard Business School; Fellow of the United States Department of State; Member of the European Council of ENAM.

He has been Secretary General and the Board of Directors of UNESA and Chairman of the Legal Committee, and Director General of the FCC Group.

He was a director of the National Energy Commission and the National Energy Commission, and currently chairs the Committee of Ex Regulators said Commission. He was a member of the Expert Group on Government Procurement of the European Commission. He is a member of the Advisory Board of Accenture.



Nick Boyle / Non-executive President

A dynamic and enterprising leader, Nick Boyle is the founder and CEO of Lightsource Renewable Energy, the largest developer and operator of solar photovoltaic energy in Europe and one of the largest in the world. Nick is a renowned expert is well known in the industry for its success in structuring financial products of low risk, predictable returns on investment generated by large solar photovoltaic plants utility scale.

Since the beginning of Lightsource Renewable Energy, determination and vision of Nick they have made the company enjoy unprecedented success in the industry in a few years, going in just 4 years of being a start-up to be the largest operator Solar photovoltaic Europe.

Lightsource Renewable Energy has more than 1.5 GW of operating assets with a significant pipeline currently under construction, and these achievements testimony of Nick's innate ability to identify opportunities and build on them.

Before his current position, Nick was a member of the Board of Directors and Senior Director of several major financial services companies.



Alexander Díez / Chairman of the Board

Law graduate with a Masters degree in Financial and Banking Law and currently attending the program in Business Management OPM (49) at Harvard Business School.

Partner of the law firm International Law Firm Lopez-Ibor Mayor & Asociados since 2005, founder and CEO of Global Energy Partners, Co-founder and Director of Lightsource Renewable Energy, Co-Founder and Director of Ampere Energy Co, Professor at the Master Spanish Energy Club Energy and Energy Master ICAI.

Alexandre has 20 years of experience in structuring energy projects internationally and also has extensive business experience in the field of renewable energy.



Ander Muelas / CEO & Co-founder

Ander has a degree in Industrial Engineering (specialized in Energy). After having worked for Ente Vasco de la Energía (Basque Energy Public Body) in the energy savings and diversification centre (CADEN), he built up and managed the energy systems department at Siliken S.A.

There, he was responsible for building the first Solar PV plants in Spain. As co-founder and former CEO of Grupotec Renewables, S.L., he was responsible for the promotion and construction of more than 500 MW of solar PV plants in recent years.



Carlos Navarro / CSO

Carlos holds a degree in Electronic Engineering. He is a strategic business director with more than 20 years of manufacturing experience both in the Automotive and Solar PV sector.

As co-founder and former CEO of Siliken S.A., he has proven ability to build and lead a customer oriented global organization and sophisticated manufacturing and service group with over €200M annual sales volume, taking full P&L responsibility.



Xavier Benavides - CRO

Xavier holds a Master of Science (M.Sc.) degree in Industrial Engineering, specialized in Electronics and Automation. He has more than 10 Years experience in Research and Development environment, linked with renewable energies and focused on Simulation and Control of Systems. He has participated in the development of several innovative technologies such as High purity silicon production fluidized bed reactor, ocean current turbines and small advanced wind turbine controls.



Pablo Obiol - CMO

Pablo has a Univ. Master in Product Design. He is a product designer with marketing experience. He has worked in television virtual scenery as a freelance designer for companies, both in corporate image, product and web. He has collaborated in the conceptual design of trams and has had extensive experience in product design freelance work for the last 15 years.



Dietmar Geckeler – Strategy & Technology Advisor

Dietmar has a degree in Environmental & Chemical Process Engineering. After leading R&D positions in the last 12 Years in Energy Storage, he built up the Energy Storage Business Unit at the a German-based Wholesaler and Project Developer. Apart from his broad technological background in Energy Storage, he also has an extensive market knowledge and management expertise of a huge network in the energy sector in Europe.



AMPERE ENERGY

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www.ampere-energy.com

Besuchen Sie uns auf der Intersolar Europe 2016

Stand **B1.450**



denersol

Strategie und Technologieberatung für die
Energiewirtschaft

Dietmar Geckeler

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email: geckeler@denersol.com



- **Dipl.-Ing. (FH) Verfahrens- und Umwelttechnik, Hochschule Heilbronn**
- **M. Sc. Energiemanagement, Universität Koblenz-Landau**
- **Certified Product Manager (MSC), Projektentwickler für Energiegenossenschaften (Energiewende jetzt!)**

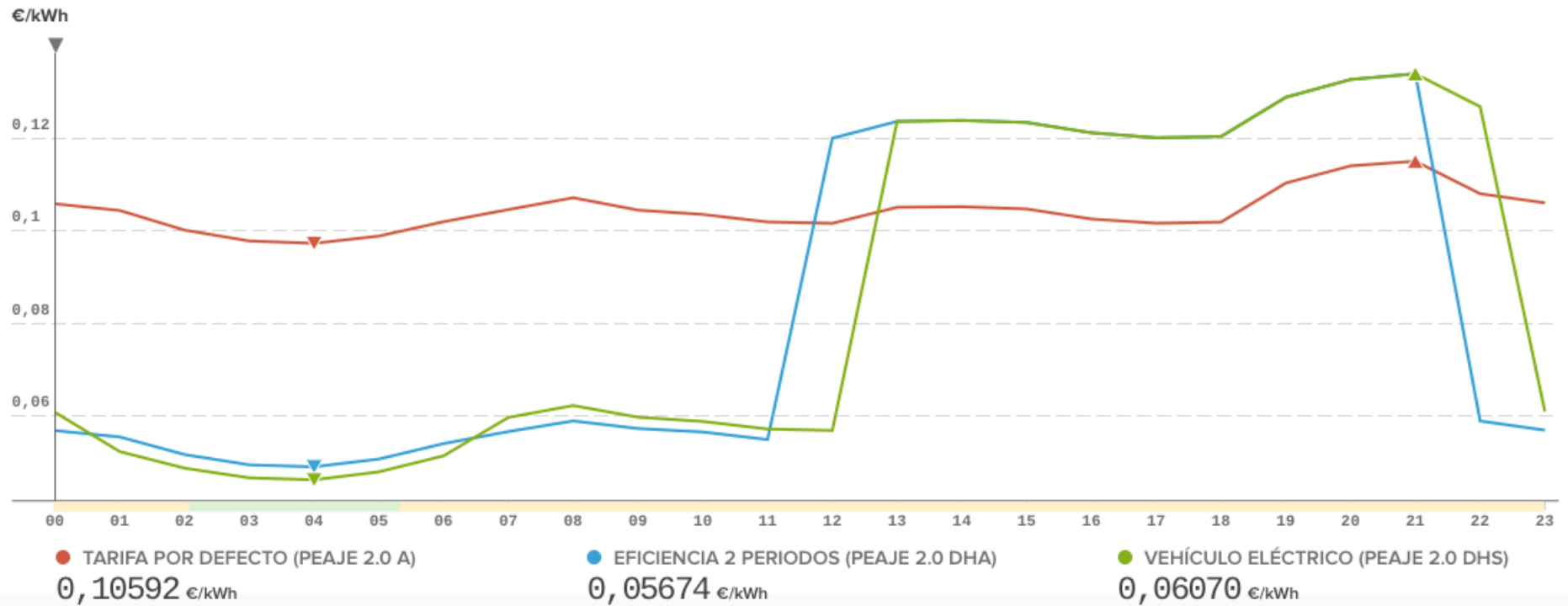
TÉRMINO DE FACTURACIÓN DE ENERGÍA ACTIVA DEL PVPC



kWh ◻ ◀ 17/03/2016 📅 ▶



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 **AMPERE
TOWER**

CHANGE YOUR ENERGY



We care for your energy.
Your customer is the most important. Tower increases the energy efficiency for industrial consumption.

AMPERE TOWER is a system designed to store energy at an industrial level for load shifting, backup power and self-consumption of solar power generation.

Moreover the battery can be charged during low rate periods when demand for electricity is lower and discharging during more expensive rate periods when electricity demand is higher.



AMPERE TOWER comes in 60 kWh energy storage capacity. You can add as many as you need. Completely automated.

Standard Warranty 10 years. Peak round-trip efficiency > 92 %. Certification CE, UN 3481, UN 38.3, MCS, UL, Local grid codes.

AC Power Output: 60 kW continuous, 100 kW peak. Battery Charging: direct from Solar PV and/or from AC side.

Operating temperature indoor: 5°C to 30 °C. Outdoor: -20°C to 45°C. Enclosure rated for indoor and (optional) outdoor installation. Installation requires installation by a trained electrician. DC-AC inverter included.

Fully integrated energy storage system, easy installation.

Dimensions: 900 cm x 900 cm x 2100 cm. Weight: 4000 lbs / 1500 kg



 **AMPERE SHIP**
CHANGE YOUR ENERGY

CHARGE IT, USE IT, REPEAT

Optimize the use of the energy generated by the renewable plant

AMPERE SHIP enables business and utilities to store sustainable and renewable energy to manage power demand, provide backup power and increase grid reliability. Utility scale solution block of 600 kWh is delivered in closed containments ready for outdoor use.

AMPERE SHIP storage systems deliver broad application compatibility and streamlined installation by integrating batteries, power electronics, and sophisticated Energy Management System.



- Maximize production of on-site clean generation.
- Increase the profitability of your system by maximizing its use. ISO/RTO Services. Energy Arbitrage, Frequency regulation, Spin Non-Spin Reserves, Voltage Support. Utility Services. Resource Adequacy, Distribution and Transmission deferral.
- Back up critical business operations in the event of a power outage.
- Avoid peak demand charges and buy electricity when it is cheapest.