GET A TASTE OF ENERGY INDEPENDENCE TODAY.

The future of solar storage is here.
Spiced with german technology.
Refined with elegance and efficiency.

Hochvolttechnologie vom Bodensee

Technology and Design
Made in Germany

RCT power

SOLAR ENERGY WHENEVER YOU NEED IT.

With a modular RCT Power electricity storage unit you store your solar power locally and use it whenever you need it. Flexible and sustainable.

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INTELLIGENT POWER STORAGE FROM ONE SOURCE.

RCT POWER BATTERY-INVERTER

HIGH EFFICIENCY

The hybrid inverter intelligently distributes the solar power, protects the battery and optimizes your yields.

Whether a new PV-system or a retrofit, RCT Power offers you high-quality DC and AC coupled storage systems that can be combined with all common module types.
The inverter is easily mounted on the wall. It is commissioned with the plug & play technique and set into operation via RCT Power App.

RCT POWER BATTERY

GROWS WITH YOUR NEEDS

Energy storage for high demands
Upgradable

The battery storage is elegant, space-saving and modular. The storage capacity can be freely selected in 1.7 kW steps from 3.8 to 11.5 kWh. It can be subsequently expanded within the first 18 months of operation. The environmentally friendly $LiFePO_4$ battery technology offers maximum safety and durability.

RESILIENT AT ANY TIME.

Power your home during an outage with stored energy.

One-stop system solution.

Sustainable clean energy storage with solar power.

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AT A GLANCE

- A one-stop-shop intelligent energy storage system
- Back-up power supply optional
- Environmentally friendly & intrinsically safe $LiFePO_4$ battery
- Up to 11,5 kW charging and 10 kW discharging capacity
- High efficiency
- Fanless cooling
- Integrated network service functions
- Can be operated without Internet connectivity
- Maximum data security
- Easy installation by only one person
- Elegant & space-saving design

FIND OUT MORE AT:
WWW.RCT-POWER.COM

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SOLAR ENERGY IS OUR PASSION.

During the day, when the sun shines, your photovoltaic system usually produces more energy than your household consumes. Without a power storage system, the excess energy is fed into the grid. You have to buy it back at a higher cost. With an RCT Power electricity storage unit you store your solar power locally and use it whenever you need it, including night-time and days with very low or no sunshine. You use solar energy more sustainably and become more independent of external power suppliers. A perfect feeling.

The high-quality power storage units from RCT Power are among the most efficient battery storage systems on the market and have already received several efficiency awards. This aspect is very important for a special reason: If you consider a high-efficiency rate when you purchase your power storage unit, you not only save money but also actively contribute to climate protection!

RCT power

BACK-UP POWER SUPPLY WITH RCT POWER SWITCH.

USE SOLAR POWER DURING A POWER FAILURE.

Thunderstorms, network overloads or maintenance work are usually the main reasons for potential outages of the public power supply. The RCT Power Switch interacts with the RCT Power storage system to provide energy to important consumers during a power failure. This back-up power functionality will increase your independence and also secure the electricity supply of your home.

You can optimise your energy consumption with our intelligent storage system and use as much solar power as possible in your home. You will increase your energy autonomy and reduce your domestic electricity bill at the same time.

WHAT IS RCT POWER BACK-UP POWER?

Battery storage systems with back-up power function can switch all domestic consumers unassisted to the in-house battery storage if there is a public power supply failure.
The RCT Power Switch back-up power system automatically disconnects from the grid in case of a power failure. After 5 to 10 seconds, the RCT Power storage system will already supply selected consumers with power. The photovoltaic system will continue to charge the battery storage. This configuration will provide a maximum of autonomy.

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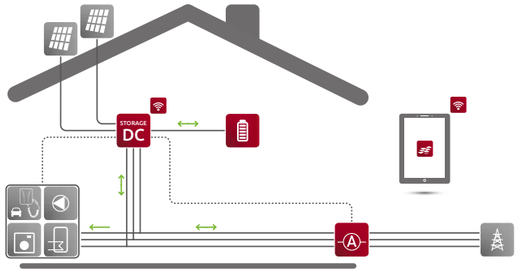
THE GOOD FEELING OF STORING SOLAR POWER IN A SUSTAINABLE WAY.

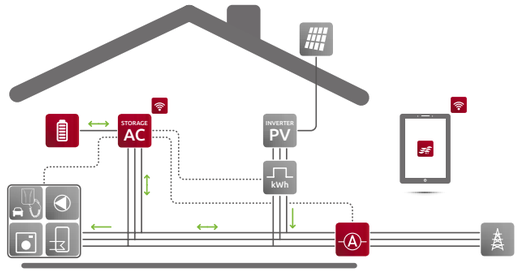
Imagine your home producing and storing clean solar energy. Controlling energy costs and safeguarding you from power outages.



DC-STORAGE SYSTEM
RCT POWER STORAGE DC
RCT POWER BATTERY
RCT POWER SENSOR

DO YOU WANT TO REDUCE YOUR ELECTRICITY BILLS AND BECOME LESS DEPENDENT ON YOUR POWER SUPPLIER?

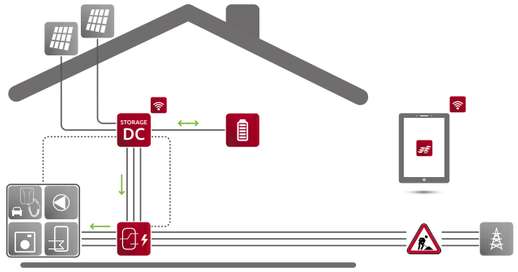
The RCT Power Storage DC is your optimal solution - the three-phase inverter with battery connection distributes the generated solar power intelligently, optimises yield and conserves your battery. Programmable switch outputs ensure that excess current is not fed into the grid but is purposefully directed towards your heat pump, your electric car or other devices. The intelligent charging strategy optimises and balances the generation and consumption of electricity in the overall system. It will benefit individual households as well as the public power grid.



AC-STORAGE SYSTEM
RCT POWER STORAGE AC
RCT POWER BATTERY
RCT POWER SENSOR

DO YOU ALREADY OWN A PHOTOVOLTAIC SYSTEM?

The RCT Power Storage AC battery inverter allows existing photovoltaic systems to store precious solar energy in the most efficient and resources protecting way.



DC-STORAGE SYSTEM WITH BACK-UP POWER
RCT POWER STORAGE DC
RCT POWER BATTERY
RCT POWER SENSOR
RCT POWER SWITCH

PROTECT YOURSELF FROM THAT NEXT POWER FAILURE.

Thunderstorms, network overloads or maintenance work are usually the main reasons for potential outages of the public power supply. The RCT Power Switch interacts with the RCT Power DC Storage to provide energy to important consumers during a power failure. This back-up power functionality will increase your independence and also secure the electricity supply of your home.

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POWER BATTERY
3.8 | 5.7 | 7.6 | 9.6 | 11.5

MODULAR HIGH VOLTAGE BATTERY FOR PV STORAGE SYSTEMS


environmentally friendly and safe $LiFePO_4$ battery


modular space saving design


easy to transport and install


everything needed from one source

HIGH EFFICIENCY

- $LiFePO_4$ technology
- 25 A charge & discharge capability
- High voltage, high efficiency, low stress operation
- Modern and space-saving design

EASY INSTALLATION

- Modular concept and simple wiring for easy transport and installation
- All components are lighter than 25 kg
- Master battery management system
- Plug & play

MONITORING VIA APP

- Powerful RCT Power App
- Full data visualization
- Monitoring from every location
- Configuration options
- One click update

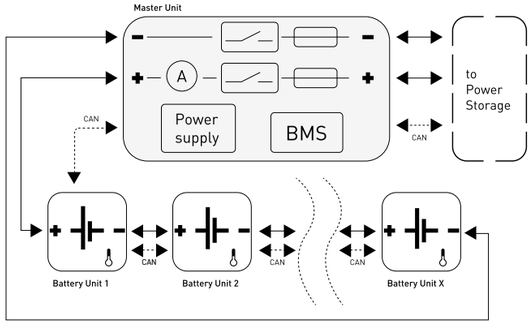
FLEXIBLE AND UPGRADEABLE

- 2 - 6 battery stacks
- Usable capacity scalable in incrementes of 1.7 kWh
- Upgradeable
- Suitable for back-up systems

SUSTAINABLE

- Lithium-iron-phosphate cell chemistry
- 10 years time value guarantee

BLOCK DIAGRAM



POWER BATTERY	3.8	5.7	7.6	9.6	11.5
ELECTRICAL PARAMETERS					
Nominal capacity	3,84 kWh	5,76 kWh	7,68 kWh	9,60 kWh	11,52 kWh
Usable capacity (90% DoD)	3,46 kWh	5,18 kWh	6,91 kWh	8,64 kWh	10,37 kWh
Cycle Life (at 80% remaining capacity)	5000				
Voltage range	120 V...173 V	180 V ... 260 V	240 V ... 346 V	300 V ... 432 V	360 V ... 520 V
Nominal voltage	154 V	230 V	307 V	384 V	461 V
Maximum charge / discharge current	25 A / 25 A	25 A / 25 A	25 A / 25 A	25 A / 25 A	25 A / 25 A
Standby consumption	‹ 5 W				
INTERFACES					
Power Storage interface	CAN				
GENERAL					
Battery technology	$LiFePO_4$				
Dimensions (height x width x depth)	600x340x340 mm	830x340x340 mm	1060x340x340 mm	1290x340x340 mm	1520x340x340 mm
Weight (single module 24kg)	54 kg	78 kg	102 kg	126 kg	150 kg
Number of battery units	2	3	4	5	6
IP degree of protection	IP42				
Type of installation	floor stand / indoor				
Operating temperature range	+5°C ... +40°C				
Connector type	Weidmüller PV-Stick (MC4-compatible)				
SAFETY / STANDARDS					
Safety class	I				
Certificates	CE, UN 38-3, EN/IEC 62619, EN/IEC 62133				
EMC	EN61000-6-2, EN61000-6-3, EN61000-3-2, EN61000-3-3				
Safety	EN/IEC 61010-1:2010				

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POWER STORAGE DC
4.0 | 6.0

DC-COUPLED HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS

high efficiency

up to 2 roof orientations

quick and easy installation

everything needed from one source

HIGH EFFICIENCY

- Two independent MPP-trackers, switchable to parallel mode
- Transformerless topology
- Very high efficiency
- Input for high voltage battery
- Suitable for dynamic power adjustment
- Intelligent energy storage management with forecast based charging

UNIQUE FLEXIBILITY

- 3-phase feed-in
- Wide MPP range for flexible string planning and easy repowering
- Max-Power Control - self-learning shade management
- Cascadable, expandable and combinable with existing PV-systems
- Hybrid-ready charging of the battery also with external AC sources
- Emergency power capability in conjunction with the RCT Power Switch
- Simple design with the RCT Power Designer - design tool

EASY INSTALLATION

- DC and AC connection with plug & play
- Integrated RCT Power APP solution
- No Internet access required for setup

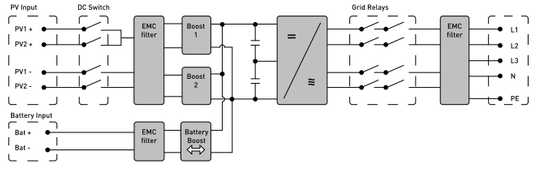
USER FRIENDLY COMMUNICATION

- Multi-information LCD-display
- LAN and WLAN
- RCT Power Portal for user-friendly system monitoring
- Multi-function communication board for connection of various devices
- Suitable for wallbox chargers, heating elements, heat pumps and energy management systems

INNOVATIVE DESIGN

- Silent, maintenance free cooling
- Durable aluminium housing
- IP42 protection: Suitable for indoor installation

BLOCK DIAGRAM



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POWER STORAGE DC	4.0	6.0
DC INPUT		
Max. recommended DC power (South / East-West)[1]	5,4 kW / 6 kW	8,1 kW / 9 kW
MPPT	2 (paralleling possible)	
Input per MPPT	1	
Maximum DC current per MPPT	12 A (24 A in parallel mode)	
Max. Short circuit current PV input (Iscmax)	18 A (36 A in parallel mode)	
Rated DC voltage	700 V	
DC start up voltage / power	150 V / 40 W	
DC voltage range	140 V ... 1000 V	
MPP voltage range	265 V ... 800 V	
Maximum Voltage DC	1000 V	
Connector type	Weidmüller PV-Stick (MC4 compatible)	
BATTERY INPUT		
DC Voltage Range	120 V ... 600 V	
Maximum charge / Discharge current	20 A / 20 A	
Maximum charge / Discharge power	9220 W / 4000 W	9220 W / 6000 W
Connector-type	Weidmüller PV-Stick (MC4 compatible)	
AC OUTPUT (GRID-MODE)		
Real AC output power	4000 W	6000 W
Maximum active power	4000 W	6000 W
Maximum apparent power	6300 VA	6300 VA
Nominal AC current per phase	5,8 A	8,7 A
Maximum AC current per phase	9,1 A	9,1 A
Rated frequency	50 Hz / 60 Hz	
Frequency range	45 Hz ... 65 Hz	
Max. switch-on current	9,1 A, 0,1ms	
Max. fault current (RMS)	285 mA	
Rated AC voltage	230V / 400 V (L1, L2, L3, N, PE)	
AC voltage range	180 V ... 290 V	
Total harmonic distortion (THD)	‹ 2% at rated power	
Reactive power factor (cos phi)	1 (adjustable range 0,8 cap....0,8 ind)	
Anti-islanding operation	yes	
Earth fault protection	RCD	
DC current injection	‹ 0,5% In	
Required phases, grid connections	3 (L1, L2, L3, N, PE)	
Number of feed-in phases	3	
Grid voltage monitoring	3-phase	
Type of AC connection	spring clamps	
PERFORMANCE		
Stand-by consumption	< 4,0 W	
Maximum efficiency (PV2AC)	98,16 %	98,16 %
European efficiency (PV2AC)	97,60 %	97,70 %
Average efficiency PV2AC [2]		96,30 %
Average efficiency PV2Bat [2]		96,60 %
Average efficiency Bat2AC [2]		95,40 %
Average delay time / settling time	0,1s / 0,4s	
Topology	transformerless	
OTHERS		
PV - DC - switch	multifuncional dry contact	
DC overvoltage category	II	
AC overvoltage category	III	
Data interface	WLAN, LAN, RS485, multifunctional dry contact, 4 x digital in, 2 x digital in/out	
Display	LCD dot matrix 128 x 64 with backlight	
Cooling	convection	
IP degree of protection	IP 42	
Max. operating altitude	2000 m	
Max. relative humidity	5 - 85 % (non condensing)	
Typical noise	< 35 dB	
Operating temperature range	-25°C ... 60°C (40°C at full load)	
Dimensions (height x width x depth)	570 x 585 x 200 mm	
Weight	30 kg	
SAFETY / STANDARDS		
Safety class	I	
Overload behaviour	working point adjustment	
Certificates	CE, VDE-AR-N 4105:2018-11, EN 50549	
EMC	EN61000-6-2, EN61000-6-3, EN61000-3-2, EN61000-3-3	
Safety	EN/IEC62109-1, EN/IEC62109-2	
Warranty	10 years	

[1] Depending on orientation, inclination and location of installation.
[2] Average efficiencies in combination with a RCT Power Battery 11.5 and UmppNenn

RCT power

POWER STORAGE DC
8.0 | 10.0

DC-COUPLED HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS

high efficiency

up to 2 roof orientations

quick and easy installation

everything needed from one source

HIGH EFFICIENCY

- Two independent MPP-trackers, switchable to parallel mode
- European efficiency > 98 %
- Input for high voltage battery
- Suitable for dynamic power adjustment
- Intelligent energy storage management with forecast based charging
- Exact and fast control behaviour

UNIQUE FLEXIBILITY

- 3-phase feed-in
- Wide MPP range for flexible string planning and easy repowering
- Max-Power Control - self-learning shade management
- Cascadable, expandable and combinable with existing PV-systems
- Hybrid-ready charging of the battery also with external AC sources
- Emergency power capability in conjunction with the RCT Power Switch
- Simple design with the RCT Power Designer - design tool

EASY INSTALLATION

- DC and AC connection with plug & play
- Integrated RCT Power APP solution
- No Internet access required for setup

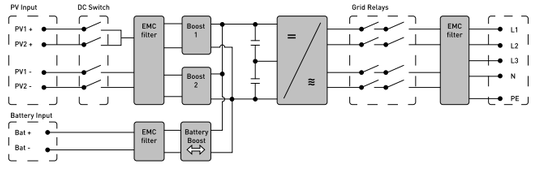
USER FRIENDLY COMMUNICATION

- Multi-information LCD-display
- LAN and WLAN
- RCT Power Portal for user-friendly system monitoring
- Multi-function communication board for connection of various devices
- Suitable for wallbox chargers, heating elements, heat pumps and energy management systems

INNOVATIVE DESIGN

- Silent, maintenance free cooling
- Durable aluminium housing
- With 32 kg a lightweight in its category
- IP42 protection: Suitable for indoor installation

BLOCK DIAGRAM



POWER STORAGE DC	8.0	10.0
DC INPUT		
Max. recommended DC power (South / East-West)[1]	10,8 kW / 12 kW	13,5 kW / 15 kW
MPPT	2 (paralleling possible)	
Input per MPPT	1	
Maximum DC current per MPPT	14 A (28 A in parallel mode)	
Max. Short circuit current PV input (Iscmax)	18 A (36 A in parallel mode)	
Rated DC voltage	700 V	
DC start up voltage / power	150 V / 40 W	
DC voltage range	140 V ... 1000 V	
MPP voltage range	380 V ... 800 V	
Maximum Voltage DC	1000 V	
Connector type	Weidmüller PV-Stick (MC4 compatible)	
BATTERY INPUT		
DC Voltage Range	120 V ... 600 V	
Maximum charge / Discharge current	25 A / 25 A	
Connector-type	Weidmüller PV-Stick (MC4 compatible)	
AC OUTPUT (GRID-MODE)		
Real AC output power	8000 W	9900 W
Maximum active power	8000 W	9900 W
Maximum apparent power	10500 VA	10500 VA
Nominal AC current per phase	11,6 A	14,5 A
Maximum AC current per phase	15,2 A	15,2 A
Rated frequency	50 Hz / 60 Hz	
Frequency range	45 Hz ... 65 Hz	
Max. switch-on current	15,2 A, 0,1ms	
Max. fault current (RMS)	285 mA	
Rated AC voltage	230V / 400 V (L1, L2, L3, N, PE)	
AC voltage range	180 V ... 290 V	
Total harmonic distortion (THD)	‹ 2% at rated power	
Reactive power factor (cos phi)	1 (adjustable range 0,8 cap....0,8 ind)	
Earth fault protection	RCD	
DC current injection	‹ 0,5% In	
Required phases, grid connections	3 (L1, L2, L3, N, PE)	
Number of feed-in phases	3	
Type of AC connection	spring clamps	
PERFORMANCE		
Stand-by consumption with discharged battery storage [2]	6,0 W	
Maximum efficiency (PV2AC)	98,60 %	98,60 %
European efficiency (PV2AC)	98,33 %	98,35 %
Average efficiency PV2AC [3]	97,78 %	97,89 %
Average efficiency PV2Bat [3]	98,00 %	98,00 %
Average efficiency AC2Bat [3]	97,33 %	97,44 %
Average efficiency Bat2AC [3]	97,36 %	97,48 %
Average delay time / settling time	0,1s / 0,4s	
Topology	transformerless	
OTHERS		
PV - DC - switch	integrated	
DC- / AC- overvoltage category	II / III	
Data interface	WLAN, LAN, RS485, multifunctional dry contact, 4 x digital in, 2 x digital in/out	
Display	LCD dot matrix 128 x 64 with backlight	
Cooling	convection	
IP degree of protection	IP 42	
Max. operating altitude	2000 m	
Max. relative humidity	5 - 85 % (non condensing)	
Typical noise	< 35 dB	
Operating temperature range	-25°C ... 60°C (40°C at full load)	
Dimensions (height x width x depth)	570 x 585 x 200 mm	
Weight	32 kg	
SAFETY / STANDARDS		
Safety class	I	
Overload behaviour	working point adjustment	
Certificates	CE, VDE-AR-N 4105:2018-11, EN 50549	
EMC	EN61000-6-2, EN61000-6-3, EN61000-3-2, EN61000-3-3	
Safety	EN/IEC62109-1, EN/IEC62109-2	
Warranty	10 years	

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[1] Depending on orientation, inclination and location of installation.
[2] Average efficiencies in combination with a RCT Power Battery 11.5 and UmppNenn
[3] Measurement results according to efficiency guidelines for RCT Power Storage 6.0 with RCT Power Battery 11.5

RCT power

POWER STORAGE AC 6.0

AC-COUPLED BATTERY INVERTER FOR THE EXPANSION OF PV SYSTEMS WITH PV STORAGE SYSTEMS

high efficiency

up to 2 roof orientations

quick and easy installation

everything needed from one source

HIGH EFFICIENCY

- Transformerless topology
- Maximum self-consumption by battery management based on PV- and load forecast
- High voltage battery input

UNIQUE FLEXIBILITY

Optimised for retrofitting battery storage to existing PV-plants

- 3-phase output
- for 2 - 6 RCT Power Battery stacks
- Maximum battery current 20 A
- Maximum charge and discharge power up to 6 kW

EASY INSTALLATION

- DC and AC connection with plug & play
- Integrated RCT Power APP solution
- No Internet access required for setup

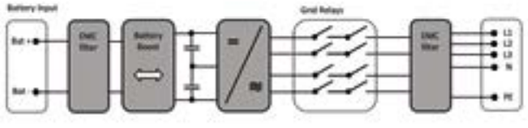
USER FRIENDLY COMMUNICATION

- Multi-information LCD-display
- LAN and WLAN
- RCT Power Portal for user-friendly system monitoring
- Multi-function communication board for connection of various devices
- Suitable for Wallbox chargers, heating elements, heat pumps and energy management systems

INNOVATIVE DESIGN

- Silent and maintenance free cooling
- Durable aluminium housing
- IP65 protection: Suitable for indoor and outdoor

BLOCK DIAGRAM



POWER STORAGE AC	6.0
BATTERY INPUT	
DC Voltage Range	120 V ... 600 V
Maximum charge / Discharge current	20 A / 20 A
Maximum charge / Discharge power	6000 W
Connector-type	Weidmüller PV-Stick (MC4 compatible)
AC OUTPUT (GRID-MODE)	
Real AC output power	6000 W
Maximum active power	6000 W
Maximum apparent power	6300 VA
Nominal AC current per phase	8,7 A
Maximum AC current per phase	9,1 A
Rated frequency	50 Hz / 60 Hz
Frequency range	45 Hz ... 65 Hz
Max. switch-on current	13 A, 0,1ms
Max. fault current (RMS)	285 mA
Rated AC voltage	230V / 400 V (L1, L2, L3, N, PE)
AC voltage range	180 V ... 290 V
Total harmonic distortion (THD)	‹ 2% at rated power
Reactive power factor (cos phi)	1 (adjustable range 0,8 cap....0,8 ind)
Anti-islanding operation	yes
Earth fault protection	RCD
DC current injection	‹ 0,5% In
Required phases, grid connections	3 (L1, L2, L3, N, PE)
Number of feed-in phases	3
Grid voltage monitoring	3-phase
Type of AC connection	spring clamps
PERFORMANCE	
Stand-by consumption	< 4,0 W
Maximum efficiency (battery - grid)	96,62 %
European efficiency (grid - battery)	96,41 %
Topology	transformerless
OTHERS	
DC overvoltage category	II
AC overvoltage category	III
Data interface	WLAN, LAN, RS485, multifunctional dry contact, 4 x digital in, 2 x digital in/out
Display	LCD dot matrix 128 x 64 with backlight
Cooling	convection
IP degree of protection	IP 65
Max. operating altitude	2000 m
Max. relative humidity	4- 100 % (non condensing)
Typical noise	< 35 dB
Operating temperature range	-25°C ... 60°C (40°C at full load)
Type of installation	wall mounting
Dimensions (height x width x depth)	570 x 440 x 200 mm
Weight	22 kg
SAFETY / STANDARDS	
Safety class	I
Overload behaviour	working point adjustment
Certificates	CE, VDE-AR-N 4105:2018-11, EN 50549
EMC	EN61000-6-2, EN61000-6-3, EN61000-3-2, EN61000-3-3
Safety	EN/IEC62109-1, EN/IEC62109-2
Warranty	10 years

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POWER INVERTER
4.0 | 6.0

GRID-TIED INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS

high efficiency

up to 2 roof orientations

quick and easy installation

everything needed from one source

HIGH EFFICIENCY

- Two independent MPP-trackers, switchable to parallel mode
- Fast and precise MPP-tracking over whole power range
- Transformerless topology
- Overall efficiency › 98 %

UNIQUE FLEXIBILITY

- Allows up to 100 % power imbalance of MPP-trackers
- Possible input voltage range between 140 V and 1000 V
- Maximum input current: 2 x 12 A
- Max-Power Control - self learning shading management
- Easy design with the RCT Power Designer - Design Tool

EASY INSTALLATION

- DC and AC connection with plug & play
- Integrated RCT Power APP solution
- No Internet access required for setup

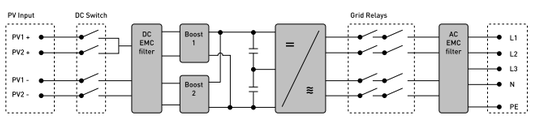
USER FRIENDLY COMMUNICATION

- Multi-information LCD-display
- LAN and WLAN
- Integrated data monitoring and alerts via APP
- Multi-function communication board for connection of various devices

INNOVATIVE DESIGN

- Silent and maintenance free cooling
- Durable aluminium housing
- IP65 protection: Suitable for indoor and outdoor

BLOCK DIAGRAM



POWER INVERTER	4.0	6.0
DC INPUT		
Max. recommended DC power (South / East-West)[1]	4,6 kW / 5,2 kW	6,9 kW / 7,8 kW
MPPT	2 (paralleling possible)	
Input per MPPT	1	
Maximum DC current per MPPT	12 A (24 A in parallel mode)	
Max. Short circuit current PV input (Iscmax)	18 A (36 A in parallel mode)	
Rated DC voltage	700 V	
DC start up voltage / power	150 V / 25 W	
DC voltage range	140 V ... 1000 V	
MPP voltage range	200 V ... 800 V	265 V ... 800 V
Maximum voltage DC	1000 V	
Connector-type	Weidmüller PV-Stick (MC4 compatible)	
AC OUTPUT (GRID-MODE)		
Real AC output power	4000 W	6000 W
Maximum active power	4000 W	6000 W
Maximum apparent power	6300 VA	6300 VA
Nominal AC current per phase	5,8 A	8,7 A
Maximum AC current per phase	9,1 A	9,1 A
Rated frequency	50 Hz / 60 Hz	
Frequency range	45 Hz ... 65 Hz	
Max. switch-on current	13 A, 0,1ms	
Max. fault current (RMS)	285 mA	
Rated AC voltage	230V / 400 V (L1, L2, L3, N, PE)	
AC voltage range	180 V ... 290 V	
Total harmonic distortion (THD)	‹ 2% at rated power	
Reactive power factor (cos phi)	1 (adjustable range 0,8 cap....0,8 ind)	
Anti-islanding operation	yes	
Earth fault protection	RCD	
DC current injection	‹ 0,5% In	
Required phases, grid connections	3 (L1, L2, L3, N, PE)	
Number of feed-in phases	3	
Grid voltage monitoring	3-phase	
Type of AC connection	spring clamps	
PERFORMANCE		
Stand-by consumption	< 4,0 W	
Maximum efficiency (battery - grid)	98,16 %	
European efficiency (grid - battery)	97,60 %	97,90 %
Topology	transformerless	
OTHERS		
DC-switch	integrated	
DC overvoltage category	II	
AC overvoltage category	III	
Data interface	WLAN, LAN, RS485, multifunctional dry contact, 4 x digital in, 2 x digital in/out	
Display	LCD dot matrix 128 x 64 with backlight	
Cooling	convection	
IP degree of protection	IP 65	
Max. operating altitude	2000 m	
Max. relative humidity	4 - 100 % (non condensing)	
Typical noise	< 35 dB	
Operating temperature range	-25°C ... 60°C (40°C at full load)	
Type of installation	wall mounting	
Dimensions (height x width x depth)	570 x 440 x 200 mm	
Weight	22 kg	
SAFETY / STANDARDS		
Safety class	I	
Overload behaviour	working point adjustment	
Certificates	CE, VDE-AR-N 4105:2018-11, EN 50549	
EMC	EN61000-6-2, EN61000-6-3, EN61000-3-2, EN61000-3-3	
Safety	EN/IEC62109-1, EN/IEC62109-2	
Warranty	10 years	

[1] Depending on orientation, inclination and location of installation.

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POWER SWITCH FOR STORAGE DC
4.0 | 6.0 | 8.0 | 10.0

SAFE SUPPLY OF HOUSEHOLD AND FUNCTIONAL RELIABILITY OF PV SYSTEM IN CASE OF GRID FAILURE

high efficiency

back-up power supply

quick and easy installation

everything needed from one source

POWER SWITCH	63/25	63/25-3
POWER DATA		
Nominal voltage	230/400 VAC	
Nominal frequency	50 Hz	
Max. prospective short circuit current	10 kA	
Max. grid-side fuse	63 A	
Max. thermal throughput power (3AC) PNOM	30 kW (Ta = 25°) / 20 kW (Ta = 40°)	
Losses in standby-mode	app. 18 W	
Additional operating losses at 25/50/100% of PNOM	app. 2/4/8 W	
Allowed Battery inverters	RCT Power Storage DC 4.0 /6.0 / 8.0 / 10.0	
Disconnection from the grid	4-pole	3-pole
Permitted grid form	TN-C-S/TN-S/TT	TN-C-S/TN-S
Fuse connection RCT Power Storage	MCCB-3C25	
Terminals Meter/Load/Backup load	spring clamps up to 16mm2	
OTHERS		
Operating temperature range	-5°C … +40 °C	
Relative humidity	5 … 95 %	
Mounting method	wall mounting	
Dimensions (height x width x depth)	446 x 622 x 161 mm	
Weight app.	15 kg	
SAFETY / STANDARDS		
Safety class	II	
IP-class	65	
Standards	IEC/EN61439-1 (DE: VDE 0660-600-1)	
	IEC/EN61439-2 (DE: VDE 0660-600-2)	
	IEC/EN61439-3 (DE: VDE 0660-600-3)	
Warranty	2 years	

BACKUP POWER SUPPLY

- Provision of backup grid
- 3-phase supply
- Separated output for not backuped loads

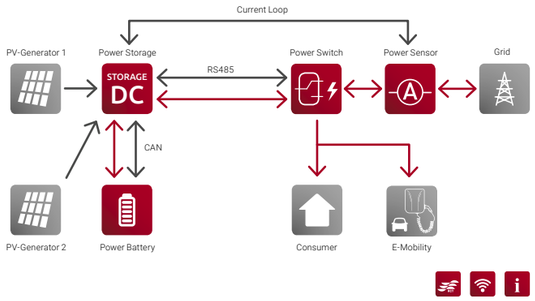
EASY INSTALLATION

- Compact and lightweight housing
- Power Sensor included
- Wall mounting
- Upgradeable

EFFICIENT

- Up to 6 kVA in single or 3-phase mode for Storage DC 4.0 and 6.0
- Up to 3 x 3,3 kVA in 3-phase backup mode for Storage DC 8.0 and 10.0
- Fast switching

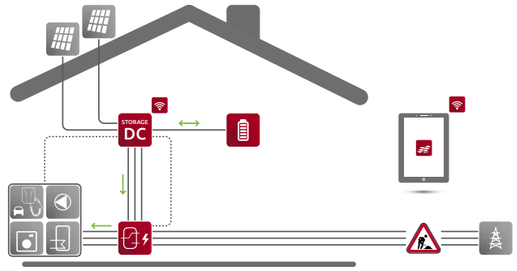
SYSTEM OVERVIEW



WHAT IS RCT BACKUP POWER?

In the event of a power failure, the RCT Power Switch ensures that the PV system and connected battery storage unit keep operational. The RCT Power Switch all-pole disconnects the domestic network from the mains supply (TN-C-S/TN-S or TT). It then creates a stand-alone grid in combination with the DC-connected RCT Power storage system.

The device ships with two outputs for optimal power supply security. One is dedicated to devices that are essential and are required to stay connected during a power failure. The other one connects non-essential devices.



- Automatic switching in case of power failure
- Switch-on delay of 5-10 seconds
- Battery and PV system can be used as energy source
- Battery can be recharged from PV system and thus the backup system can supply power for several days

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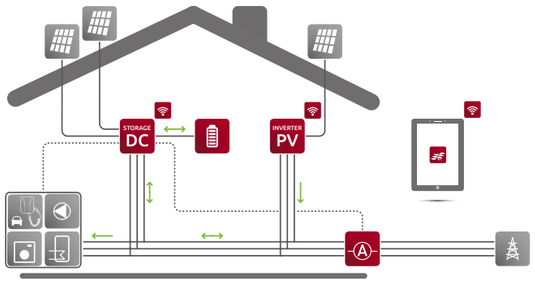
RCT power

POWER SENSOR
50 | 100

MEASUREMENT OF CONSUMPTION FOR RCT POWER STORAGE SYSTEMS

EASY AND ACCURATE

- Very high accuracy in the determination of the household consumption
- Minimum power consumption due to best response times
- User-friendly installation

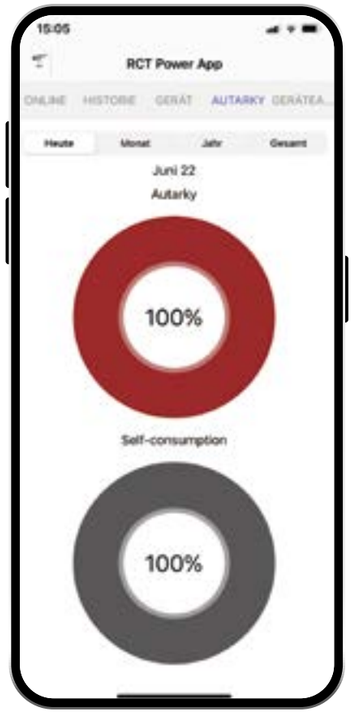


POWER SENSOR	50	100
GENERAL		
Maximum current	3 x 50 A	3 x 100 A
Accuracy	1,5%	
Dimensions evaluation unit (H x W x D)	91 x 72 x 44 mm	
Dimensions current sensors (H x W x D)	41 x 26 x 26 mm	67 x 51 x 41 mm
Current sensor cable length	1 m	
Max. cable diameter current sensor	10 mm	24 mm
IP-degree of protection	IP20	
Type of installation	DIN rail mounting / split core	
Operating temperature range	+5°C ... +40°C	
INTERFACE		
Power storage interface	current loop	

WHY A RCT POWER SENSOR?

The RCT Power Storage System features extremely short settling time and minimal dead time. A very fast response time is important, for example, to be able to align with the start-up currents of refrigerators and freezers. They can then be powered from the storage system as simultaneously as possible.

Systems with slower response times lag. As a result, power from the public grid is always used first. In contrast, with the RCT Power Sensor, solar energy stored in the RCT Power Storage units can be accessed in fractions of a second and used efficiently. Ultimately, every watt counts when you generate it yourself rather than drawing it from the public grid.



EVERYTHING UNDER CONTROL WITH THE RCT POWER APP.

With the powerful RCT Power App you can manage and control all functions of your storage system.
Installation, maintenance and control are made easy.
The App is a flexible tool and includes comprehensive data visualisation, various configuration options and dedicated one-click update facilities.

GET IT ON Google Play

Download on the App Store

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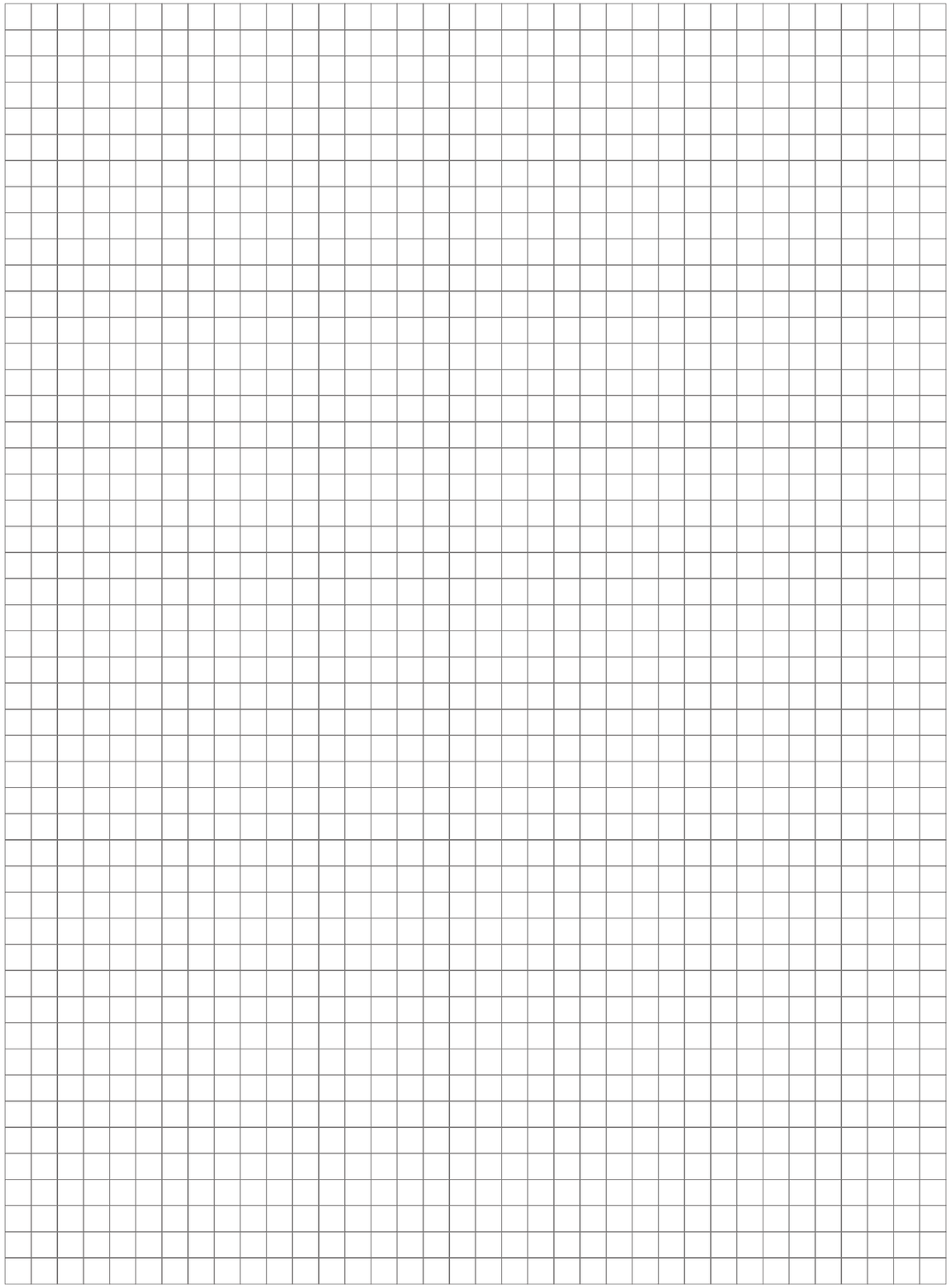
RCT power

NOTES



STORAGE TECHNOLOGY RETHOUGHT.

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