



RESIDENTIAL ENERGY STORAGE SYSTEM SOLUTIONS

EMPOWER TOMORROW WITH TRUSTED GREEN ENERGY





SOLAR ENERGY IS OUR PASSION. WE STORE 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.

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.

RCT Power offers you high-quality DC or 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 RESS App. The inverter is equipped with 3 independent MPPT channels, making it suitable for more complex roof structures or other application requirements.

RESILIENT AT ANY TIME.



Power your home during an outage with stored energy.



One-stop system solution.



Sustainable clean energy storage with solar power.

RCT POWER BATTERY

GROWS WITH YOUR NEEDS

Energy storage for
high demands.
Upgradable.

The battery storage is elegant and modular. The storage capacity can be selected individually. The battery adopts active balancing technology, providing users with a maintenance-free experience. The environmentally friendly LiFePO_4 battery technology offers maximum safety and durability.





SOLAR ENERGY WHENEVER YOU NEED IT.

The intelligent RCT Power Storage System ensures that solar power can be used when the sky is cloudy, at night or during power outages. Keeping your home safe and cozy.

During the day, when the sun shines, your photovoltaic system usually produces more energy than your household consumes. With a RCT Power Storage System you store your solar power locally and use it whenever you need it, including night-time and days with very low or no sunshine.

During a power outage the RCT Power Switch provides energy to important consumers. This back-up power functionality will increase your independence and will supply electricity from the battery to your house.

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. Efficiency matters: If you consider a high-efficiency rate when you purchase your power storage unit, you do not only save money but also actively contribute to climate protection!

RCT Power is a technology leader in stationary storage solutions for domestic use. The brand has its origin in the city of Konstanz, Germany. We strongly believe that innovation, quality and superior customer service are the foundations for success. Our main focus in product development is always based on the simple and flexible design of reliable and sustainable solutions for our customers.



POWER BATTERY

5.0 | 7.5 | 10.0 | 12.5 | 15.0

MODULAR HIGH VOLTAGE OUTDOOR BATTERY FOR PV STORAGE SYSTEMS



environmentally friendly
and safe LiFePO₄ battery



modular space
saving design



easy to transport
and install



everything needed
from one source

HIGH PERFORMANCE

- LiFePO₄ technology
- Max. 0.7C charging/discharging rate
- Intelligent equalization
- High voltage, high efficiency, low stress operation

EASY INSTALLATION

- Lightweight components
- Modern and space-saving design
- Modular concept and simple wiring for easy transport and installation
- Master battery management system
- Plug & play

MONITORING VIA APP

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

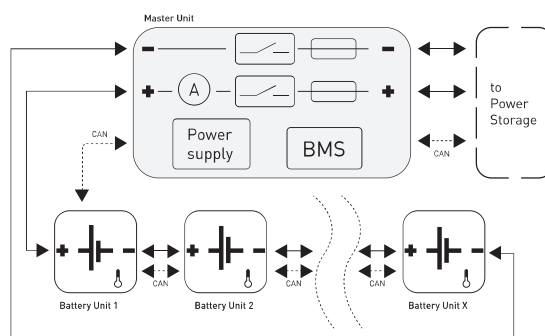
FLEXIBLE AND UPGRADEABLE

- Extendable capacity for lifetime use: 5-15 kWh
- Usable capacity scalable in increments of 2.25 kWh
- Upgradeable
- Suitable for back-up systems

SUSTAINABLE

- Lithium-iron-phosphate cell chemistry
- 10 years time value guarantee
- IP65: Suitable for outdoor installation
- Suitable for salt water-wet locations
- Corrosion-resistant aluminum housing
- All components carry necessary UL certifications

BLOCK DIAGRAM



POWER BATTERY

5.0**7.5****10.0****12.5****15.0**

ELECTRICAL PARAMETERS

Nominal capacity	5 kWh	7.5 kWh	10 kWh	12.5 kWh	15 kWh
Usable capacity (90% DoD)	4.5 kWh	6.75 kWh	9 kWh	11.25 kWh	13.5 kWh
Cycle Life	6000				
Voltage range	145 V...166 V	218 V ... 248 V	291 V ... 331 V	364 V ... 414 V	436 V ... 497 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
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GENERAL

Battery technology	LiFePO ₄				
Dimensions (height x width x depth)	597x344x344 mm 1.96'x1.13'x1.13'	829x344x344 mm 2.72'x1.13'x1.13'	1058x344x344 mm 3.47'x1.13'x1.13'	1289x344x344 mm 4.23'x1.13'x1.13'	1518x344x344 mm 4.98'x1.13'x1.13'
Weight (single stack 25.2 kg(55.5 lb))	56.4kg (124.3 lb)	81.6kg (179.9 lb)	106.8kg (235.5 lb)	132kg (291.0 lb)	157.2kg (346.6 lb)
Number of battery units	2	3	4	5	6
IP degree of protection	IP65				
Type of installation	floor stand / indoor / outdoor				
Operating temperature range	-18 ~ 55°C (-0.4 °F~ 131°F)				
Connector type	Quick Contact MC4 - Evo 2				

SAFETY / STANDARDS

Safety class	I
Certificates	UN 38.3, UL1973, UL60730-1, UL9540A, IEC 62619, IEC63056
EMC	FCC Part 15B, ICES-003, IEC 61000-6-1&-6-3
Safety	UL1973, UL60730-1, UL9540A, IEC60730, IEC62040

WARRANTY

Warranty	10 years*
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* Test condition of 77±35.6°F, 0.3C charge and discharge rate and SOH=70%



POWER STORAGE DC 5.0 | 6.0 SP

SINGLE-PHASE HYBRID OUTDOOR INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS



high efficiency



up to 3 roof
orientations



quick and easy
installation



everything needed
from one source

HIGH EFFICIENCY

- Three independent MPP-trackers
- 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

- DC & AC Coupling compatible
- 1-phase feed-in
- Up to 2 high voltage batteries per inverter
- 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

EASY INSTALLATION

- DC and AC connection with plug & play
- Integrated RCT RESS App solution

USER FRIENDLY COMMUNICATION

- LAN and WLAN
- RCT Power Portal for user-friendly system monitoring
- Suitable for wallbox chargers, heating elements, heat pumps and energy management systems

INNOVATIVE DESIGN

- Silent, maintenance free cooling
- Durable aluminium housing
- With 22 kg a lightweight in its category
- IP65 protection: Suitable for outdoor installation

POWER STORAGE DC

5.0 SP

6.0 SP

DC INPUT

Max. recommended DC power	9300 W
MPPT	3
Input per MPPT	1
Max. DC current per MPPT	16 A
Max. Short circuit current PV input (Iscmax)	20 A
Rated DC voltage	360 V
DC start up voltage / power	120 V / 50W
MPP voltage range	90 V ... 580 V
Max. voltage DC	600 V
Connector type	Phoenix XLIX

BATTERY INPUT

DC Voltage range	120 V ... 520 V
Max. charge / discharge current	25 A / 25 A
Number of battery input	2
Connector-type	MC4 Evo2

AC OUTPUT (GRID-MODE)

Gird connection	1 phase	
Real AC output power	5000 W	6000 W
Max. active power	5000 W	6000 W
Max. apparent power	5000 VA	6000 VA
Max. AC input apparent power from grid	5000 VA	6000 VA
Nominal AC current per phase	21,7 A	26,1 A
Max. AC current per phase	21,7 A	26,1 A
Rated frequency	50 Hz	
Frequency range	45 Hz ... 55 Hz	
Rated AC voltage	230 V, L/N/PE	
AC voltage range	184 ... 265 V	
Total harmonic distortion (THD)	< 3 %	
Reactive power factor (cos phi)	1 (adjustable range 0,8 cap....0,8 ind)	
Earth fault protection	RCD	
Type of AC connection	quick connection plug	

AC OUTPUT (BACK-UP MODE)*

Max. AC output apparent power	5000 VA	6000 VA
Rated AC voltage	230 V, L/N/PE	
Max. AC output current	21,7 A	26,1 A
Rated frequency	50 Hz	

PERFORMANCE

Stand-by consumption	< 5 W
Max. efficiency (PV2AC)	97,1 %
Max. efficiency (Battery2Grid)	97,1 %
European weighted efficiency	96,6 %
Topology	transformerless

OTHERS

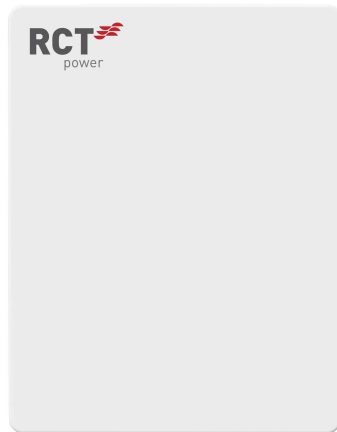
Dark start function	yes
PV disconnect switch	integrated
Data interface	BAT/CAN, WLAN, LAN, RS485
Display	LED indicator
Cooling	convection
IP degree of protection	IP 65
Max. operating altitude	4000 m
Max. relative humidity	0 - 100 %
Typical noise	< 30 dB
Operating temperature range	-25°C ... 60°C (derating above 45°C)
Dimensions (height x width x depth)	445 x 605 x 165 mm
Weight	22 kg

SAFETY / STANDARDS

Safety	EN/IEC 62109-1, EN/IEC 62109-2
Grid support regulation	EN 50549-1, EN 50549-10, RD 647/UNE 217001/UNE 217002/NTS 631 Type A, G99, CEI 0-21, AS/NZS4777.2
EMC	IEC/EN 61000-6-1/2/3/4

WARRANTY

Warranty	10 years
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AC POWER SWITCH

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

BACKUP POWER SUPPLY

- Provision of backup grid
- 1-phase supply
- Automatic switching in case of power failure
- Switch-on delay less than 20 ms
- Battery and PV system can be used as energy source

EASY INSTALLATION

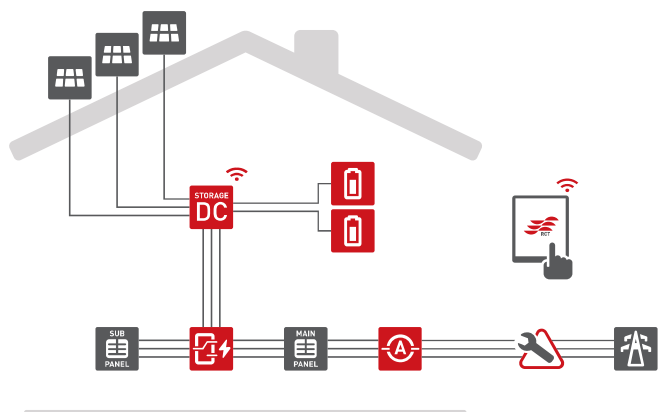
- Compact and lightweight housing
- Wall mounting
- Upgradeable

EFFICIENT

- Up to 6 kVA for single phase Storage DC 6.0 SP
- Fast switching

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. It then creates a stand-alone grid in combination with the DC-connected RCT Power storage system.



AC POWER SWITCH

RAL8.0K-230G2

AC OUT (ON GRID)

Grid connection	1-phase
Rated voltage	230 V
AC frequency	50 Hz
AC output voltage range	184 ~265 V
Rated current	50 A

AC OUT (BACK UP)

Load connection	1-phase
Rated voltage	230 V
AC frequency	50 Hz
Rated apparent power	8000 VA
Rated output current	34.8 A
Switch over time	< 20 ms

AC INPUT (INVERTER)

Rated voltage	230 V
AC frequency	50 Hz

OTHERS

Operating temperature range	-25°C...+60°C
Relative humidity	0 % - 100 %
Type of installation	wall mounting
Dimensions (height x width x depth)	450 x 350 x 110 mm
Weight	6.2 kg

SAFETY / STANDARDS

IP-class	IP65
Standards	IEC/EN 61439-1/2

WARRANTY

Warranty	10 years
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Cloud & APP



RCT Power Cloud

RCT Power Cloud is independently developed and designed by RCT Power. Through the cloud platform, it can unify the management of equipment, power plants, installers and end users. By presenting the collected equipment data, it shows the operation of equipment and power station in all dimensions, and realizes 360-degree view of equipment tracking and maintenance from parameter setting, safety regulation setting, schedule task, remote control, equipment mode, equipment upgrade and operation history.

RCT Power APP

- Compatible with Android and IOS systems
- Save debugging time
- Remote upgrade and installation
- Self-developed design
- Real-time monitoring

VPP Interoperability

CSIP-AUS certified for seamless integration with virtual power plant operators.



RCT POWER IS TEST WINNER 2024 & 2025 5 & 10 kW STORAGE SYSTEMS

The outstanding energy efficiency of the RCT Power Storage Systems was once again confirmed in 2025. As the previous year, they ranked top in the 5 kW and 10 kW performance classes in the annual Energy Storage Inspection by the University of Applied Sciences Berlin (HTW Berlin).

LEARN MORE:
WWW.STROMSPEICHER-INSPEKTION.DE



**LEARN MORE:
WWW.RCT-POWER.AU**