

We are experts in energy storage systems, smart energy partners by your side.

































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Product Display









CESS 200

CESS 200 PowerStone

CESS 1000

CESS 1500

Core Features



High Level of Safety

Safer than EV

- Active security in the Cloud
- Stable local control
- Reliable hardware



Long-life

Cycle times up to cell level

- Mature equalization technique
- Extensive thermal management technology
- Complete supply chain management system



Easy Maintenance

Convenient to use

- Predictive maintenance
- Fully Self-developed EMS -Unattended, fully automated operation
- Five-star after-sales service

Application Scenarios



Commercial Syntheses/ Office Building

1491kWh+748kW-PCS





Commercial Syntheses/Office building

932kWh+500kW-PCS





EV Storage and Charging Station / Guesthouse

233kWh+100/125kW-PCS





RCT Power's RPEMS is a safe, adaptable, ready-to-use EMS(Energy Management System) for Commercial Energy Storage System.

By setting individual operational strategies, you can combine a wide variety of applications and thus perfectly adapt the system to the needs of commerce and industry.

| | Functions |
|--|---|
| Self-consumption | Use more energy from renewable sources and minimise feed -in |
| Off-grid | Create your own power grid independently of energy suppliers |
| Physical peak shaving | Shave consumption peaks and cut demand rate costs |
| Fee peak shaving | Charge low and discharge high |
| Back-up power | Storage system immediately takes over the power supply in the event of a power outage |
| Charging station control | Smart control of the charging station/charge set point and central controls. This means charging processes can be digitally recorded and controlled |
| Generation control during utility grid operation | Generators can be actively switched on or off and controlled for greater independence from energy suppliers |
| Load control | Actively switch consumers on or off during utility grid operation for greater dependence on generation and consumption |

| Advantages | | | |
|--------------|---|--|--|
| Safe | Vehicle-grade development process, zero accidents since production | | |
| Adaptable | Cover 100kWh \sim 200MWh systems and a wide variety of applications | | |
| Ready-To-Use | One-stop solutions | | |



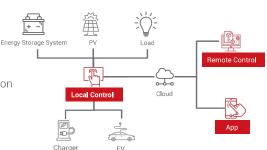
- Device communication and control
- Autonomous energy management
- Overview of power consumption and generation
- Friendly user interface
- Safety protection

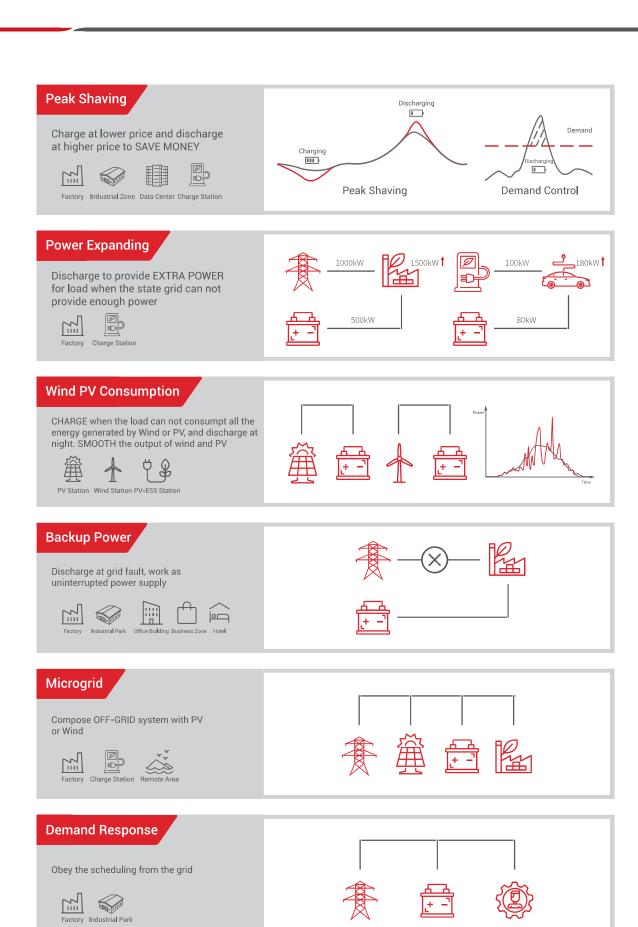


- Remote Control
- Real-time dashboard and data history
- Energy reports and detailed data(billing purposes)
- Active safety by machine learning
- Predictive maintenance to lower maintenance cost
- Autonomous equipment inspecting



- Overview of power consumption and generation
- Real-time dashboard
- Questions and Feedback



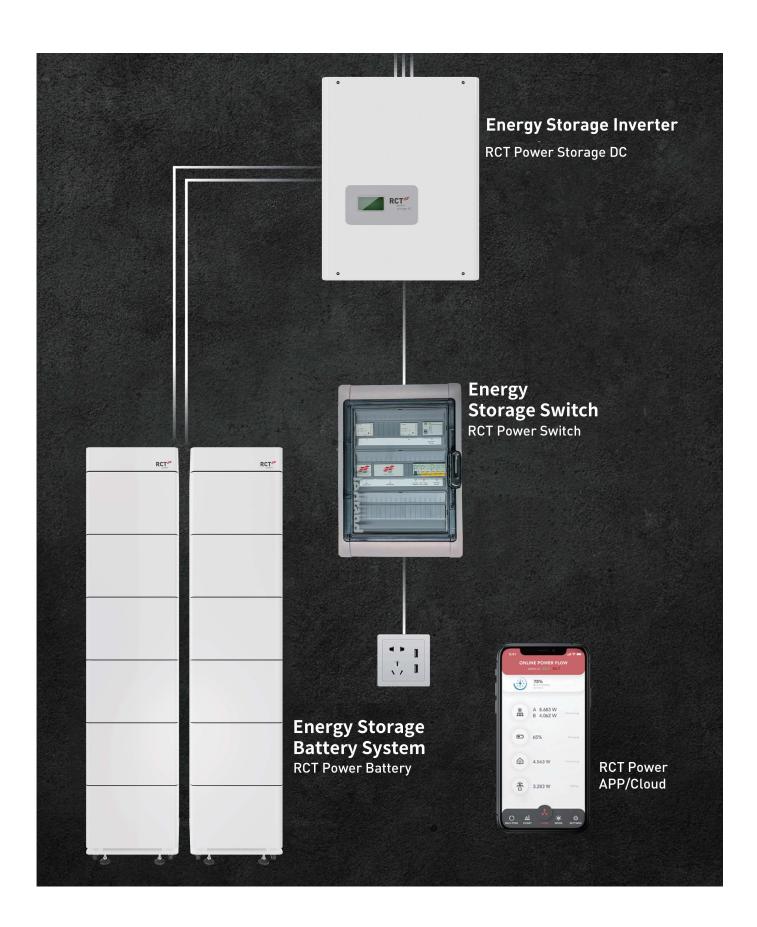


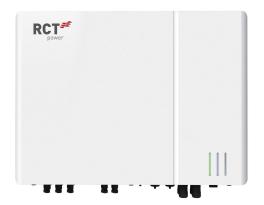
Success Cases



Product Selection Table

| Datasheet | CESS 200 | CESS 200 PowerStone | CESS 1000 | CESS 1500 |
|-----------------------------|----------------------|----------------------|----------------------|----------------------|
| Nominal capacity | 233kWh | 233kWh | 932kWh | 1491kWh |
| Rated power | 100kW | 125kW | 500kW | 748kW |
| AC output voltage | 400Vac | 400Vac | 380Vac | 690Vac |
| Efficiency | >0.99 (Rated power) | >0.99 (Rated power) | >0.99 (Rated power) | >0.99 (Rated power) |
| THDi | <3% | <3% | <3% | <3% |
| Cell technology | LiFePO₄ | LiFePO ₄ | LiFePO₄ | LiFePO ₄ |
| Temperature control | Liquid cooled | Liquid cooled | Liquid cooled | Liquid cooled |
| Dimensions (L x W x H) | 1600 X 1300 X 2200mm | 1340 X 1100 X 2300mm | 2991 X 2438 X 2591mm | 2991 X 2438 X 2896mm |
| Weight | ~3.3T | ~2.7T | ~11.5T | ~16.6T |
| Installation Area | 5m² | 3.82m² | 14m² | 14m² |
| Ingress protection | IP54 | IP54 | IP54 | IP54 |
| | APP、Web、3D | | APP、Web、3D | APP、Web、3D |
| Human-Machine Interaction | Touch Panel | APP、Web、3D | Touch Panel | Touch Panel |
| Communication protocol | Modbus / TCP | Modbus / TCP | Modbus / TCP | Modbus / TCP |
| Operating temperature range | -25°C~45°C | -25°C~45°C | -25°C~50°C | -25°C~45°C |





POWER STORAGE DC 6.0 SP

DC-COUPLED HYBRID OUTDOOR INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS







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

- 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
- Simple design with the RCT Power Designer - design tool

EASY INSTALLATION

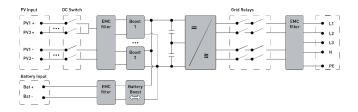
- DC and AC connection with plug & play
- Integrated RCT RESS App solution

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 | 6.0 SP | | |
|--|--|--|--|
| DC INPUT | | | |
| Max. recommended DC power | 9300 W | | |
| MPPT | 3 | | |
| Input per MPPT | 1 | | |
| Max. DC current per MPPT | 14 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 | Weidmüller WM4 / quick connection plug | | |
| AC OUTPUT (GRID-MODE) | | | |
| | 1.1 | | |
| Gird connection | 1 phase | | |
| Real AC output power | 6000 W | | |
| Max. active power | 6000 W | | |
| Max. apparent power | 6000 VA | | |
| Max. AC input apparent power from grid | 3000 VA | | |
| Nominal AC current per phase | 26,1 A | | |
| Max. AC current per phase | 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 cap0,8 ind) | | |
| Earth fault protection | RCD | | |
| Type of AC connection | quick connection plug | | |
| AC OUTPUT (BACK-UP MODE)* | | | |
| Max. AC output apparent power | 6000 VA | | |
| Rated AC voltage | 230 V, L/N/PE | | |
| Max. AC output current | 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 | IEC 62109 or AS/NZS 62109 | | |
| Grid support regulation | AS/NZS 4777.2 | | |
| EMC | IEC 61000 | | |
| Safety- Storage System | IEC 62619, ANS/NZS 62368, IEC 61000 | | |
| | | | |
| WARRANTY | 10 | | |
| Warranty | 10 years | | |

* Backup power output via RCT Power Switch Box



POWER STORAGE DC 4.0 | 6.0

DC-COUPLED HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS







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

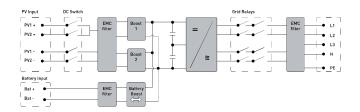
- DC and AC connection with plug & play
- Integrated RCT Power APP solution
- No Internet access required for setup

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



| 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 MPP voltage range | 140 V 1000 V 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 corrent Maximum charge / Discharge power | 9220 W / 4000 W | 9220 W / 6000 W |
| Connector-type | Weidmüller PV-Stick(MC4 compatible) | 3220 11 7 0000 11 |
| AC OUTPUT (GRID-MODE) | Tretamaner T V Stork(Me T Sompatiste) | |
| Real AC output power | 4000 W | 6000 W |
| • • | *************************************** | |
| Maximum active power Maximum apparent power | 4000 W 6300 VA | 6000 W 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 | 2)1 M |
| 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 cap0,8 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 delegations / pattling time | 0.10 / 0.40 | 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 | | |
| Data interface Display | WLAN, LAN, RS485, multifunctional dry | contact, 4 x digital in, 2 x digital in/out |
| Display Cooling | LCD dot matrix 128 x 64 with backlight | |
| Cooling IP degree of protection | convection IP 42 | |
| Max. operating altitude | 2000 m | |
| | 5 - 85 % (non condensing) | |
| Max. relative humidity Typical noise | 5 - 85 % (non condensing) < 35 dB | |
| Operating temperature range | -25°C 60°C (40°C at full load) | |
| · · · · · · · · · · · · · · · · · · · | | |
| | | |
| | 50 Ng | |
| | 1 | |
| | working point adjustment | |
| | | |
| | | -3-2. EN61000-3-3 |
| | | |
| - | | |
| Dimensions (height x width x depth) Weight SAFETY / STANDARDS Safety class Overload behaviour Certificates EMC Safety Warranty | 570 x 585 x 200 mm 30 kg I working point adjustment CE, VDE-AR-N4105:2018-11,EN 50549 EN61000-6-2, EN61000-6-3, EN61000-EN/IEC62109-1, EN/IEC62109-2 10 years | -3-2, EN61000-3-3 |

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



POWER STORAGE DC 8.0 | 10.0

DC-COUPLED HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS



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

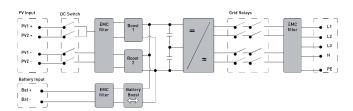
- DC and AC connection with plug & play
- Integrated RCT Power APP solution
- No Internet access required for setup

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



| 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) Rated DC voltage | 18 A (36 A in parallel mode) 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 compati | ble) |
| BATTERY INPUT | | |
| DC Voltage Range | 120 V 600 V | |
| Maximum charge / Discharge current | 25 A / 25 A | |
| Connector-type | Weidmüller PV-Stick (MC4 compati | ble) |
| 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 45 Hz 65 Hz | |
| Frequency range 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 cap0,8 ind |) |
| Earth fault protection | RCD | |
| DC current injection | < 0,5% In | |
| Required phases, grid connections Number of feed-in phases | 3 (L1, L2, L3, N, PE) 3 | |
| Type of AC connection | spring clamps | |
| PERFORMANCE | spring clamps | |
| | 6,0 W | |
| Stand-by consumption with discharged battery storage ²⁾ 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 | / | |
| Data interface Display | | l dry contact, 4 x digital in, 2 x digital in/out |
| Display Cooling | LCD dot matrix 128 x 64 with backli convection | gnı |
| 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 | 1 | |
| Overload behaviour | working point adjustment | |
| Certificates | CE, VDE-AR-N4105:2018-11, EN 50: | |
| EMC Outside Control | EN61000-6-2, EN61000-6-3, EN61 | 000-3-2, EN61000-3-3 |
| Safety | EN/IEC62109-1, EN/IEC62109-2 | |

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

everything needed from one source



POWER STORAGE AC 4.0 | 6.0

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



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

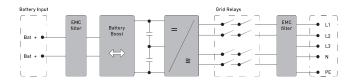
- DC and AC connection with plug & play
- Integrated RCT Power APP solution
- No Internet access required for setup

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



| POWER STORAGE AC | 4.0 | 6.0 | |
|---|--|---|--|
| BATTERY INPUT | | | |
| DC Voltage Range | 120 V 600 V | | |
| Maximum charge / Discharge current | 20 A / 20 A | | |
| Maximum charge / Discharge power | 4000 W | 6000 W | |
| Connector-type | Weidmüller PV-Stick(MC4 compati | ble) | |
| AC OUTPUT (GRID-MODE) | · · | , | |
| Real AC output power | 4000 W | 6000 W | |
| <u>'</u> | 4000 W | 6000 W | |
| Maximum active power | | | |
| 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 45 Hz 65 Hz | | |
| Frequency range Max. switch-on current | | | |
| Max. fault current (RMS) | 13 A, 0,1ms 285 mA | | |
| Rated AC voltage | 230V / 400 V (L1, L2, L3, N, PE) | | |
| | 180 V 290 V | | |
| AC voltage range | | | |
| Total harmonic distortion (THD) | < 2% at rated power | 1) | |
| Reactive power factor (cos phi) Anti-islanding operation | 1 (adjustable range 0,8 cap0,8 ind | 1) | |
| <u> </u> | yes | | |
| Earth fault protection DC current injection | RCD | | |
| Required phases, grid connections | < 0,5% In 3 (L1, L2, L3, N, PE) | | |
| Number of feed-in phases | 3 (L1, L2, L3, N, PE) | | |
| Grid voltage monitoring | | | |
| Type of AC connection | spring clamps | | |
| * ' | 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 | | | |
| Data interface | WLAN, LAN, RS485, multifunctiona | l dry contact, 4 x digital in, 2 x digital in/out | |
| Disp l ay | LCD dot matrix 128 x 64 with backli | | |
| 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 | 1 | | |
| Overload behaviour | working point adjustment | | |
| Certificates | CE, VDE-AR-N4105:2018-11, EN 50 | 549 | |
| EMC | EN61000-6-2, EN61000-6-3, EN61000-3-2, EN61000-3-3 | | |
| Safety | EN/IEC62109-1, EN/IEC62109-2 | , = | |
| Warranty | 10 years | | |



POWER BATTERY 3.8 | 5.7 | 7.6 | 9.6 | 11.5

MODULAR HIGH VOLTAGE BATTERY FOR PV STORAGE SYSTEMS



HIGH EFFICIENCY

- LiFePO₄ 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

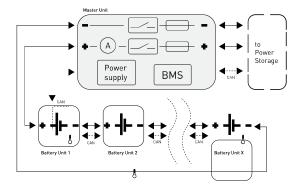
- Powerful RCT Power App
- Full data visualization
- Monitoring from every location
- Configuration options
- One click update

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



RESS

Power Battery 3.8 | 5.7 | 7.6 | 9.6 | 11.5

| 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 V173 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 | -15°C +45°C | | | | |
| Connector type | Quick Connector | | | | |
| SAFETY / STANDARDS | | | | | |
| Safety class | I | | | | |
| Certificates | CE, UN 38-3, EN/IEC 62619, UN 38-3, UL1973, UL60730-1, UL9540A, EN/IEC 62040-1 | | | | |
| EMC | EN61000-6-2, EN61000-6-3, EN61000-3-2, FCC Part 15B | | | | |
| Safety | UL1973, UL60730-1, | UL9540A | | | |



POWER BATTERY 5.0 | 7.5 | 10.0 | 12.5 | 15.0

MODULAR HIGH VOLTAGE BATTERY FOR PV STORAGE SYSTEMS



HIGH EFFICIENCY

- LiFePO₄ 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 25.2 kg
- Master battery management system
- Plug & play

MONITORING VIA APP

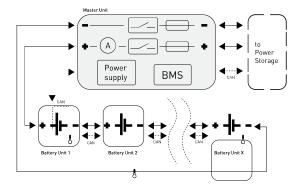
- Powerful RCT Power App
- Full data visualization
- Monitoring from every location
- Configuration options
- One click update

FLEXIBLE AND UPGRADEABLE

- 2 6 battery stacks
- Usable capacity scalable in incrementes of 2.25 kWh
- Upgradeable
- Suitable for back-up systems

SUSTAINABLE

- Lithium-iron-phosphate cell chemistry
- 10 years time value guarantee
- IP65 protection: Suitable for outdoor installation



RESS

Power Battery 5.0 | 7.5 | 10 .0 | 12 .5 | 15 .0

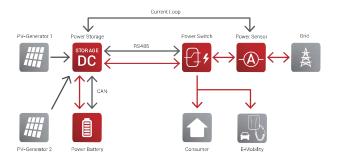
| - 2 | | | | | |
|--|--|----------------|-------------------------|-----------------|-----------------|
| POWER BATTERY | 5.0 | 7.5 | 10.0 | 12.5 | 15.0 |
| ELECTRICAL PARAMETERS | | | | | |
| | | | | | |
| Nominal capacity | 5.0 kWh | 7.5 kWh | 10.0 kWh | 12.5 kWh | 15.0 kWh |
| Usable capacity (90% DoD) | 4.5 kWh | 6.75 kWh | 9.0 kWh | 11.25 kWh | 13.5 kWh |
| Cycle Life (at 80% remaining capacity) | 6000 | | | | |
| Voltage range | 145V166V | 218V248V | 291V331V | 364V414V | 436V497V |
| 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) | 598x345x345 mm | 828x345x345 mm | 1058x345x345 mm | 1288x345x345 mm | 1518x345x345 mn |
| Weight (single module 25.2kg) | 56.4 kg | 81.6 kg | 106.8 kg | 132 kg | 157.2 kg |
| Number of battery units | 2 | 3 | 4 | 5 | 6 |
| IP degree of protection | IP65 | | | | |
| Type of installation | floor stand / outdoo | r | | | |
| Operating temperature range | -18°C +55°C | | | | |
| Connector type | Quick Connector | | | | |
| SAFETY / STANDARDS | | | | | |
| Safety class | I | | | | |
| Certificates | CE, UN 38-3, EN/IEC 62619, EN/IEC 62040-1,IEC 60730-1, EN/IEC 62477, IEC 63056 | | | | |
| EMC | EN/IEC 61000-6-1, EN/IEC 61000-6-3 | | | | |
| Safety | | | /IEC 62040-1, IEC 60730 | . 7 | |



POWER SWITCH FOR STORAGE DC 6.0 SP

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

SYSTEM OVERVIEW



BACKUP POWER SUPPLY

- Provision of backup grid
- 1-phase supply
- Automatic switching in case of power failure
- Switch-on delay less than 3 seconds
- Battery and PV system can be used as energy source

EFFICIENT

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

EASY INSTALLATION

- Compact and lightweight housing
- Wall mounting
- Upgradeable

POWER SWITCH BOX-SP

| POWER SWITCH | BOX-SP |
|-------------------------------------|--|
| AC OUT (ON GRID) | |
| Grid connection | 1-phase |
| Rated voltage | 230 V |
| AC frequency | 50 Hz |
| AC output voltage range | 184 ~265 V |
| AC OUT (BACK UP) | |
| Load connection | 1-phase |
| Rated voltage | 230 V |
| AC frequency | 50 Hz |
| Max apparent power | 6000 VA |
| Max output current | 26,1 A |
| Switch over time | <3\$ |
| 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 | 8 kg |
| SAFETY / STANDARDS | |
| IP-class | IP65 |
| Standards | AS/NZS 61439-1/2/3, IEC/EN 61439-1/2/3 |



BACKUP POWER SUPPLY

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

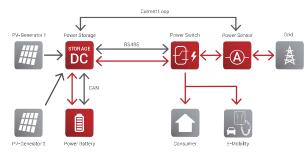
EFFICIENT

- 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

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

SYSTEM OVERVIEW



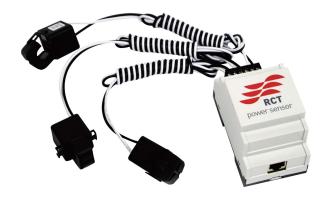


EASY INSTALLATION

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

| 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 | | |
| | | | |

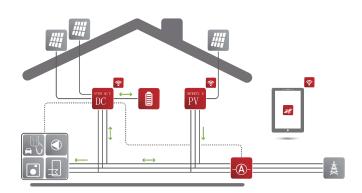


POWER SENSOR 50 | 100

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.

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.

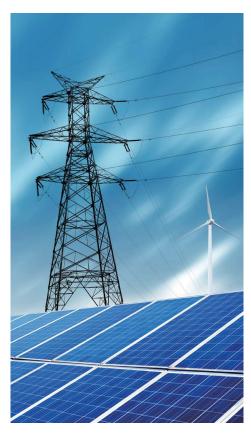
RCT Power APP

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

RCT Power GESS Solution

OEM/ODM Introduction

RCT Power's GESS upholds the OEM/ODM design concept, providing customers with one-stop DC-side design, production and system integration. The professional R&D team of RCT Power, who is well-experienced in grid mechanical design, electrical design, thermal management, system simulation and safety testing, played a leading role in fulfilling the requirements and delivery of many internationally renowned grid energy storage projects. RCT Power is able to provide customized system solutions efficiently, optimally and professionally, and dedicated to providing the best customer service experience.







26

GESS Product Display

01

Container Design and Integration



02

DC Cabinet Design and Production AC Cabinet Design and Production

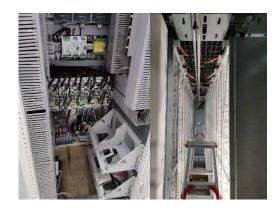
03





04

Overall Wiring Design and Production



05

Thermal Management System Design and Production



06

Integrated Fire Suppression System



Application Cases



? Jiangsu, China

Superquick Charging Station 100kW/233kWh



? Texas, USA

Hill Country 2, BESS 100MW/100MWh



? Jiangsu, China

Schneider Wuxi Global Lighthouse Zero Carbon Green Factory 0.6MW/1.8MWh



? Jiangsu, China

Energy Storage Demonstration Plant 748kW/1491kWh



Prague, Czech Republic

15 kW/11.52 kWh



Suzhou, China

13 kW/11.52 kWh



Konstanz, Germany

50 kW/38.4 kWh



Berkeley, USA

12 kW/11.52 kWh









RESS Solution



CESS Solution



GESS Solution



PV-storage-charging Solution

Jiangsu RCT Power Energy Technology Co., Ltd

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