



INTELLIGENT POWER STORAGE FROM ONE SOURCE.

SUSTAINABLE. FLEXIBLE. EFFICIENT.





GET THE MOST OUT OF YOUR SOLAR POWER.

Germany
Technology and Design





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

Catalogue

POWER BATTERY



Power Battery
8.0 | 16.0 | 24.0 | 32.0



Power Battery
5.0 | 10.0 | 15.0 | 20.0



Power Battery
5.0 | 7.5 | 10.0 | 12.5 | 15.0

HYBRID INVERTER



SolarWave Series
15K | 20K | 25K | 30K



SolarWave Series
5K | 6K | 8K | 10K | 12K | 15K

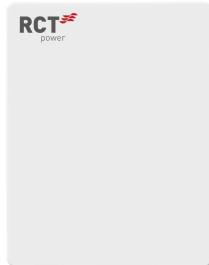


SolarLink Series
3K | 3.6K | 4K | 4.6K | 5K |
6K | 8K | 10K | 10.5K



Power Storage DC
5.0 | 6.0 SP

POWER SWITCH



AC Power Switch

ACCESSORIES



Power Sensor 50 | 100

CLOUD & APP



RCT Power Cloud & APP



POWER BATTERY 5.0 | 10.0 | 15.0 | 20.0

MODULAR HIGH VOLTAGE OUTDOOR BATTERY FOR PV STORAGE SYSTEMS



support mixed use of
old & new batteries



5kWh modular design
scalable from 5 to 80kWh



easy to transport
and install



5-layer safety
protection/IP65

- **Modular Stackable Design** with cell-level optimization technology, enabling on-demand expansion and flexible adaptation for both household and commercial/industrial scenarios.
- **Active Energy Balancing** eliminates the "short-board" effect, supporting mixed use of old/new batteries and batteries with different SOH/SOC levels. New batteries feature plug-and-play for flexible energy expansion, while facilitating inventory management for distributors.
- **Independent Module Management:** Each battery pack can charge/discharge independently, achieving fast charge/discharge power up to 2.5 kW. Maximum charge/discharge power per cluster system reaches 10 kW.
- **Extreme Temperature Resilience:** Operates from -20°C to 55°C, suitable for homes from the equator to polar regions.
- **Wireless Installation** with plug-and-play simplicity for effortless setup.
- **5-Layer Safety Protection** for ultimate security.
- **314Ah High-Capacity Cells** with high cycle life and long-term durability.
- **IP65 Protection Rating** to withstand harsh environments.
- **One-Click System Diagnosis**, real-time monitoring, and transparent visibility.
- **Remotely Scheduled OTA Updates** available anytime.
- **Expandable Energy** up to 80kWh.

POWER BATTERY

RDM050025-EUR1

ELECTRICAL PARAMETERS

Battery cell type	LiFePO ₄
Battery cell capacity	314Ah
Battery cell cycle	8000*
Battery pack usable energy	5 kWh
Max. output power	2.5 kW
Battery pack nominal voltage	400 V
Battery pack operating voltage range	370~450V

COMMUNICATION

Display	LED indicator
Communication	CAN / RS485

GENERAL SPECIFICATION

Junction box dimension	80 x 760 x 268 mm
Junction box weight	10 kg
Base dimension	50 x 760 x 268 mm
Base weight	7 kg
Battery pack dimension	358 x 760 x 268 mm
Battery pack weight	60 kg
Installation	Floor stand
Operating temperature	Charge: 0~ 55°C Discharge: -20 ~ 50°C
Max. operating altitude	4000 m
Relative humidity	5% - 95% RH, non-condensing
Cooling	Natural
IP rating	IP65
Noise emission	< 29dB
Scalability	Max. 4 systems in parallel
Compatible inverters	RCT HV Inverter**
Certificates	EN61000-6-1, EN61000-6-3, IEC 62619, IEC 60730, IEC 62477, EN/IEC 62040, UN38.3

MODEL

**RBS5.0
HM400T-EU**

**RBS10.0
HM400T-EU**

**RBS15.0
HM400T-EU**

**RBS20.0
HM400T-EU**

TECHNICAL SPECIFICATION



ELECTRICAL PARAMETERS

	1	2	3	4
Number of battery packs	1	2	3	4
Battery pack usable energy	5 kWh	10 kWh	15 kWh	20 kWh
Max. output power	2.5 kW	5.0 kW	7.5 kW	10.0 kW
Weight (Junction box & base included)	77 kg	137 kg	197 kg	257 kg
Height (Junction box & base included)	488 mm	846 mm	1204 mm	1562 mm
Width	760 mm			
Depth	268 mm			

* For specific details, please refer to the RCT power warranty documentation.

** For detailed information, please consult the RCT Power sales or technical support team.



POWER BATTERY 8.0 | 16.0 | 24.0 | 32.0

MODULAR HIGH VOLTAGE OUTDOOR BATTERY FOR PV STORAGE SYSTEMS



support mixed use of
old & new batteries



8kWh modular design
scalable from 8 to 128kWh



easy to transport
and install



5-layer safety
protection/IP65

- **Modular Stackable Design** with cell-level optimization technology, enabling on-demand expansion and flexible adaptation for both household and commercial/industrial scenarios.
- **Active Energy Balancing** eliminates the "short-board" effect, supporting mixed use of old/new batteries and batteries with different SOH/SOC levels. New batteries feature plug-and-play for flexible energy expansion, while facilitating inventory management for distributors.
- **Independent Module Management:** Each battery pack can charge/discharge independently, achieving fast charge/discharge power up to 4 kW. Maximum charge/discharge power per cluster system reaches 16 kW.
- **Extreme Temperature Resilience:** Operates from -20°C to 55°C, suitable for homes from the equator to polar regions.
- **Wireless Installation** with plug-and-play simplicity for effortless setup.
- **5-Layer Safety Protection** for ultimate security.
- **314Ah High-Capacity Cells** with high cycle life and long-term durability.
- **IP65 Protection Rating** to withstand harsh environments.
- **One-Click System Diagnosis**, real-time monitoring, and transparent visibility.
- **Remotely Scheduled OTA Updates** available anytime.
- **Expandable Energy** up to 128kWh.

POWER BATTERY

RDM080040-EUR1

ELECTRICAL PARAMETERS

Battery cell type	LiFePO ₄
Battery cell capacity	314Ah
Battery cell cycle	8000*
Battery pack usable energy	8 kWh
Max. output power	4 kW
Battery pack nominal voltage	650 V
Battery pack operating voltage range	600~710V

COMMUNICATION

Display	LED indicator
Communication	CAN / RS485

GENERAL SPECIFICATION

Junction box dimension	80 x 760 x 268 mm
Junction box weight	10 kg
Base dimension	50 x 760 x 268 mm
Base weight	7 kg
Battery pack dimension	358 x 760 x 268 mm
Battery pack weight	80 kg
Installation	Floor stand
Operating temperature	Charge: 0~ 55°C Discharge: -20 ~ 50°C
Max. operating altitude	4000 m
Relative humidity	5% - 95% RH, non-condensing
Cooling	Natural
IP rating	IP65
Noise emission	< 29dB
Scalability	Max. 4 systems in parallel
Compatible inverters	RCT HV Inverter**
Certificates	EN61000-6-1, EN61000-6-3, IEC 62619, IEC 60730, IEC 62477, EN/IEC 62040, UN38.3

MODEL

**RBS8.0
HM650T-EU**

**RBS16.0
HM650T-EU**

**RBS24.0
HM650T-EU**

**RBS32.0
HM650T-EU**

TECHNICAL SPECIFICATION



ELECTRICAL PARAMETERS

	1	2	3	4
Number of battery packs	1	2	3	4
Battery pack usable energy	8 kWh	16 kWh	24 kWh	32 kWh
Max. output power	4 kW	8 kW	12 kW	16 kW
Weight (Junction box & base included)	97 kg	177 kg	257 kg	337 kg
Height (Junction box & base included)	488 mm	846 mm	1204 mm	1562 mm
Width	760 mm			
Depth	268 mm			

* For specific details, please refer to the RCT power warranty documentation.

** For detailed information, please consult the RCT Power sales or technical support team.



POWER BATTERY

5.0 | 7.5 | 10.0 | 12.5 | 15.0

MODULAR HIGH VOLTAGE OUTDOOR BATTERY FOR PV STORAGE SYSTEMS



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

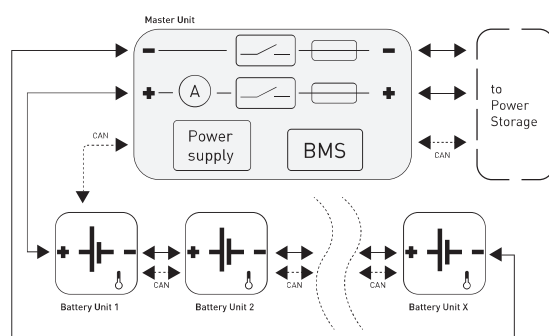
FLEXIBLE AND UPGRADEABLE

- 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	829x344x344 mm	1058x344x344 mm	1289x344x344 mm	1518x344x344 mm
	1.96'x1.13'x1.13'	2.72'x1.13'x1.13'	3.47'x1.13'x1.13'	4.23'x1.13'x1.13'	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%

SOLARWAVE SERIES



THREE-PHASE HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS



high efficiency



back-up power supply



up to 3 roof orientations



modular space saving design



quick and easy installation



everything needed from one source

HIGH PERFORMANCE

- < 10ms UPS-level switching
- Three MPPTs, Max.36A input per MPPT
- Up to 98.1% operating efficiency
- Optimized for high-power solar panel
- Max.200% PV oversizing
- 200% Peak backup power for 10 seconds

UNIQUE FLEXIBILITY

- Support 100% unbalanced loads
- Supports microgrid and generator functions
- Supports up to two high-voltage battery groups per inverter

USER FRIENDLY

- Convenient remote monitoring via App and Cloud
- Flexible configuration, time-efficient and labor-saving
- Remote diagnosis & update

PREMIUM DESIGN

- Compact and lightweight hardware design
- IP66 Design: suitable for indoor and outdoor
- Optional AFCI & RSD function

EXPANDABLE SOLUTION

- Support AC retrofit application
- Support up to 3 units parallel connection

MODEL

RHT15.0KHR-EU RHT20.0KHR-EU RHT25.0KHR-EU RHT30.0KHR-EU

PV INPUT

Max. Recommended DC Power [W]	30,000	40,000	50,000	60,000
Max. DC Voltage [V]	1,000			
Max. Input Current [A]	36 / 36 / 36			
Max. Short Circuit Current [A]	46 / 46 / 46			
MPPT Voltage Range [V]	180 - 960			
Start-up Voltage [V]	200			
No. of MPP Trackers	3			
Strings Per MPP Tracker	2			
PV Over Management	200%	200%	180%	150%

BATTERY

Battery Type	LiFePO ₄			
Battery Voltage [V]	180 - 800			
Max. Charge/ Discharge Power [W]	30,000 / 15,000	30,000 / 20,000	30,000 / 25,000	30,000 / 30,000
Max. Charge/ Discharge Current [A]	50 / 50			
Communication Interface	CAN			

AC OUTPUT

Max. AC Output Apparent Power [VA]	16,500	22,000	27,500	33,000
Rated AC Output Power [W]	15,000	20,000	25,000	30,000
Max. AC Output Current [A]	25.0	33.4	41.7	50
Rated AC Output Current [A]	22.8	30.3	37.9	45.5
Rated AC Voltage [V]	3L+N+PE, 220 / 380, 230 / 400			
Grid Frequency [Hz]	50 / 60			
Adjustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging			
Output THDi (@Rated Output)	< 3%			

AC INPUT

Max. AC Input Power [VA]	30,000	40,000	41,500	41,500
Max. AC Input Current [A]	45.5	60.3	63.0	63.0
Rated AC Voltage [V]	3L+N+PE, 220 / 380, 230 / 400			
Grid Frequency [Hz]	50 / 60			

BACKUP OUTPUT (WITH BATTERY)

Rated Power [W]	15,000	20,000	25,000	30,000
Rated Voltage[V]	3L+N+PE, 220 / 380, 230 / 400			
Rated Frequency [Hz]	50 / 60			
Rated Current [A]	22.8	30.3	37.9	45.5
Output THDv (@Linear Load)	< 3%			
Automatic Switch Time [ms]	< 10			
Peak Apparent Power, Duration [VA, 10s]	22,500	30,000	37,500	45,000

EFFICIENCY

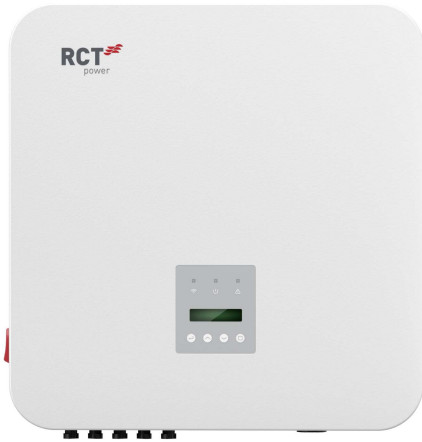
Max. Efficiency	98.10%			
Euro-Efficiency [%]	97.70%			
Max. Battery Charge/Discharge Efficiency	97.60%			

GENERAL DATA

Dimensions (W*H*D) [mm]	630 x 514 x 239			
Weight [kg]	45.32	45.32	47.00	47.00
Display	LED + LCD			
Communication	RS485, USB Update, 4 × DI, 2 × DO, Optional: WiFi or 4G or Ethernet			
Ambient Temperature Range [°C]	-30 ~ +60			
Relative Humidity	0 ~ 100%, non-condensing			
Operating Altitude [m]	< 2000			
Night Self-consumption [W]	< 15			
Topology	Non-isolated			
Cooling	Natural	Natural	Fan	Fan
Ingress Protection	IP66			

CERTIFICATIONS & STANDARDS

Grid Regulation	IEC61727/IEC62116, EN50549-1/EN50549-10, EN50549-PL, EN50549-CZ, VDE-AR-N 4105, CEI 0-21
Safety Regulation	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2
EMC	EN / IEC 61000-6-1, EN / IEC 61000-6-2, EN / IEC 61000-6-3, EN / IEC 61000-6-4



SOLARWAVE SERIES

THREE-PHASE HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS



high efficiency



back-up power supply



up to 3 roof orientations



modular space saving design



quick and easy installation



everything needed from one source

HIGH PERFORMANCE

- < 10ms UPS-level switching
- Three MPPTs, Max.20A input per MPPT
- Up to 98.8% operating efficiency
- Optimized for high-power solar panel
- Max.200% PV oversizing
- 200% Peak backup power for 60 seconds

UNIQUE FLEXIBILITY

- Support 100% unbalanced loads
- Supports microgrid and generator functions
- Supports up to two high-voltage battery groups per inverter

USER FRIENDLY

- Convenient remote monitoring via App and Cloud
- Flexible configuration, time-efficient and labor-saving
- Remote diagnosis & update

PREMIUM DESIGN

- Compact and lightweight hardware design
- IP66 Design: suitable for indoor and outdoor
- Optional AFCI & RSD function

EXPANDABLE SOLUTION

- Support AC retrofit application
- Support up to 10 units parallel connection

MODEL	RHT5.0K HE-EU	RHT6.0K HE-EU	RHT8.0K HE-EU	RHT10.0K HE-EU	RHT12.0K HE-EU	RHT15.0K HE-EU	RHT20.0K HE-EU
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PV INPUT

Max. Recommended DC Power [W]	10,000	12,000	16,000	20,000	24,000	30,000	40,000
Max. DC Voltage [V]	1,000						
Max. Input Current [A]	20 / 20 / 20	20 / 20 / 20	20 / 20 / 20	20 / 20 / 40	20 / 20 / 40	20 / 20 / 40	20 / 20 / 40
Max. Short Circuit Current [A]	30 / 30 / 30	30 / 30 / 30	30 / 30 / 30	30 / 30 / 60	30 / 30 / 60	30 / 30 / 60	30 / 30 / 60
MPPT Voltage Range [V]	100 - 900						
Start-up Voltage [V]	50						
No. of MPP Trackers	3						
Strings Per MPP Tracker	1 / 1 / 1	1 / 1 / 1	1 / 1 / 1	1 / 1 / 2	1 / 1 / 2	1 / 1 / 2	1 / 1 / 2
PV Over Management	200%						

BATTERY

Battery Type	LiFePO ₄
Battery Voltage [V]	80 - 800
Rated. Charge/ Discharge Current [A]	50 / 50
Max. Charge/ Discharge Current [A]	60 / 60
Communication Interface	RS485, CAN

AC OUTPUT (On-Grid Side)

Max. AC Output Apparent Power [VA]	5,000	6,000	8,000	10,000	12,000	15,000	20,000
Rated AC Output Power [W]	5,000	6,000	8,000	10,000	12,000	15,000	20,000
Max. AC Output Current [A]	7.2	8.7	11.6	14.5	17.4	21.7	29.0
Rated AC Output Current [A]	7.2	8.7	11.6	14.5	17.4	21.7	29.0
Rated AC Voltage [V]	3L+N+PE, 220 / 380, 230 / 400, 240 / 415, 312 ~ 520						
Grid Frequency [Hz]	50 / 60						
Adjustable Power Factor [cosφ]	> 0.99, 0.8 leading ~ 0.8 lagging						
Output THDi (@Rated Output)	< 3%						

AC OUTPUT (Back-Up)

Rated Power [W]	5,000	6,000	8,000	10,000	12,000	15,000	20,000
Peak Apparent Power for 60s [W]	10,000	12,000	16,000	20,000	24,000	30,000	40,000
Rated Voltage[V]	3L+N+PE, 220 / 380, 230 / 400, 240 / 415, 312 ~ 520						
Rated output current[A]	7.2	8.7	11.6	14.5	17.4	21.7	29.0
Rated Frequency [Hz]	50 / 60						
Output THDv (@Linear Load)	< 3%						
Automatic Switch Time [ms]	< 10						

EFFICIENCY

Max. Efficiency	98.80%
Euro-Efficiency [%]	98.30%

GENERAL DATA

Dimensions (W*H*D) [mm]	507 x 522 x 194
Weight [kg]	26
Communication	WiFi, 4G, GPRS, Bluetooth, RS485, CAN
Ambient Temperature Range [°C]	-25 ~ +60
Relative Humidity	0 ~ 100%, non-condensing
Operating Altitude [m]	< 3000
Topology	Non-isolated
Cooling	Fan
Ingress Protection	IP66

CERTIFICATIONS & STANDARDS

Grid Regulation	AS/NZS4777:2020, EN50549-10:2022, G98:2021, G99:2021, NC RFG, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, CEI0-16, RD1699, NA/EEA, C10:2019, PPDS:2021, Tor+R25, IEC61683, IEC61727&621611727/IEC62116, EN50549-1/EN50549-10, EN50549-PL, EN50549-CZ, CEI 0-21
Safety / EMC Regulation	IEC-62109-1/-2, IEC-61000-6-1/-2/-3, NB/T32004

SOLARLINK SERIES



SINGLE-PHASE HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS



high efficiency



back-up power supply



up to 2 roof orientations



modular space saving design



quick and easy installation



everything needed from one source

HIGH PERFORMANCE

- < 10ms UPS-level switching
- Premium grid peak shaving capabilities, friendly to grid
- 100% full load charge and discharge
- Max. 200% back-up output overloading @60S

FULLY COMPATIBILITY

- Lithium batteries voltage range 80-500V
- Max. PV input current per string 18A
- Enhanced compatibility with 2 MPPTs

UNIQUE FLEXIBILITY

- Supports diesel generators in off-grid locations
- Max. charging/discharging current 60A

SMART SYSTEM

- Intelligent EMS function, improving battery's reliability
- Longevity and almost no derating at high temperature
- Settable charge and discharge time

EASY TO USE

- Plug-and-play installation
- Easy anytime, anywhere monitoring

PREMIUM DESIGN

- IP66 protection for indoor and outdoor use
- Optional AFCI protection

EXPANDABLE SOLUTION

- Support AC retrofit application
- Support up to 4 units parallel connection

MODEL

	RHS3.0K HE-EU	RHS3.6K HE-EU	RHS4.0K HE-EU	RHS4.6K HE-EU	RHS5.0K HE-EU	RHS6.0K HE-EU	RHS8.0K HE-EU	RHS10.0K HE-EU	RHS10.5K HE-EU
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PV INPUT

Max. Recommended DC Power [W]	3900	4680	5200	5980	6500	7800	10400	13000	13650
Max. DC Voltage [V]	600								
Max. Input Current [A]	18 / 18								
Max. Short Circuit Current [A]	22 / 44								
MPPT Voltage Range [V]	80 - 580								
Start-up Voltage [V]	40								
No. of MPP Trackers	2								
Strings Per MPP Tracker	1 / 2								
PV Over Management	130%								

BATTERY

Battery Type	LiFePO ₄
Battery Voltage [V]	80 - 500
Max. Charge/ Discharge Current [A]	60 / 60
Communication Interface	RS485,CAN

AC OUTPUT

Max. AC Output Apparent Power [VA]	3,000	3,600	4,000	4,600	5,000	6,000	8,000	10,000	10,500
Rated AC Output Power [W]	3,000	3,600	4,000	4,600	5,000	6,000	8,000	10,000	10,500
Max. AC Output Current [A]	13.0	15.7	17.4	20.0	21.7	26.1	34.8	43.5	45.6
Rated AC Output Current [A]	13.0	15.7	17.4	20.0	21.7	26.1	34.8	43.5	45.6
Rated AC Voltage [V]	L+N+PE, 220 / 230 / 240 (180~300)								
Grid Frequency [Hz]	50 / 60								
Adjustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging								
Output THDi (@Rated Output)	< 3%								

BACKUP OUTPUT (WITH BATTERY)

Rated Power [W]	3,000	3,600	4,000	4,600	5,000	6,000	8,000	10,000	10,500
Rated Voltage[V]	L+N+PE, 220 / 230 / 240 (180~300)								
Rated Frequency [Hz]	50 / 60								
Rated Current [A]	13.0	15.7	17.4	20.0	21.7	26.1	34.8	43.5	45.6
Adjustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging								
Output THDv (@Linear Load)	< 3%								
Automatic Switch Time [ms]	< 10								

EFFICIENCY

Max. Efficiency	98.60%
Euro-Efficiency [%]	98.10%

GENERAL DATA

Dimensions (W*H*D) [mm]	411 x 401 x 166								
Weight [kg]	17.7								
Communication	Wifi, 4G, GPRS, Bluetooth, RS485, CAN								
Max. operation altitude(m)	3,000								
Ambient Temperature Range [°C]	-25 ~ +60								
Topology	transformerless								
Cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Smart Fan	Smart Fan	Smart Fan	Smart Fan
Ingress Protection	IP66								
Grid Regulation	AS/NZS4777:2020, EN50549-10:2022, G98:2021, G99:2021, NC RFG, ABNT NBR 16150, VDE-AR-N 4105,								
Grid Regulation	CEI0-21, CEI0-16, RD1699, NA/EEA, C10:2019, PPDS:2021, Tor+R25, IEC61683, IEC61727&62161								
Safety/EMC Regulation	IEC-62109-1/-2, IEC-61000-6-1/-2/-3, NB/T32004								



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 MPPT 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

PV INPUT

Max. recommended PV power	10,000 W	12,000 W
Number of MPP-Trackers	3	
Number of Strings per MPPT	1	
Max. Input current per MPPT	16 A	
Max. Short circuit current per MPPT	20 A	
Rated Input voltage	360 V	
Start-up voltage	120 V	
MPPT operating voltage range	90 V ... 580 V	
Max. Input voltage	600 V	

BATTERY INPUT

DC Voltage range	120 V ... 520 V	
Max. charge / discharge current	25 A / 25 A	
Number of battery input	2	
Battery Type	LiFePO ₄	

AC INPUT/OUTPUT(On-grid)

Rated output power	5,000 W	6,000 W
Max. output power	5,000 W	6,000 W
Max. apparent power	5,000 VA	6,000 VA
Max. AC input apparent power from grid	5,000 VA	6,000 VA
Max. output current (@230V)	21.7 A	26.1 A
Max. Input current from grid	26.1 A	26.1 A
Rated frequency	50 Hz	
Frequency range	45 Hz ... 55 Hz	
Rated AC voltage	L+N+PE, 230 V	
AC voltage range	184 ... 265 V	
Total harmonic distortion (THD)	< 3 % at rated power	
Adjustable power factor	0.8 leading - 0.8 lagging	

AC OUTPUT (BACK-UP MODE)*

Max. AC output apparent power	5,000 VA	6,000 VA
Rated AC voltage	230 V, L/N/PE	
Rated frequency	50 Hz	

PERFORMANCE

Max. efficiency (BAT to AC)	97.1 %	
Max. efficiency	97.1 %	
European efficiency	96.6 %	

OTHERS

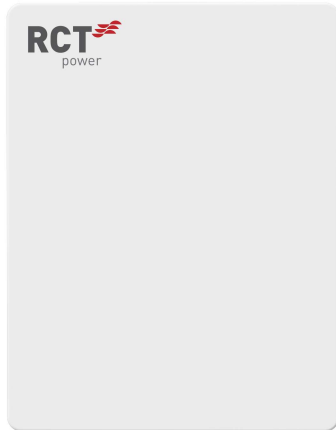
Communication	RS485, CAN, Wi-Fi, LAN	
Display	LED Indicator, Wi-Fi + APP	
Cooling	convection	
IP degree of protection	IP 65	
Max. operating altitude	4000 m	
Max. relative humidity	0 - 100 %, non-condensing	
Typical noise	< 30 dB	
Operating temperature range	-25°C ... 60°C (derating above 45°C)	
Dimensions (height x width x depth)	445 x 605 x 165 mm	
Weight	22 kg	

SAFETY / STANDARDS

Safety	IEC 62109-1, IEC 62109-2	
Grid support regulation	AS/NZS4777.2	EN 50549-1, RD1699/661, G99, CEI 0-21, AS/NZS4777.2
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 EN 61000-4-16, EN 61000-4-18, EN 61000-4-29	

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 2s
- Battery and PV system can be used as energy source

EASY INSTALLATION

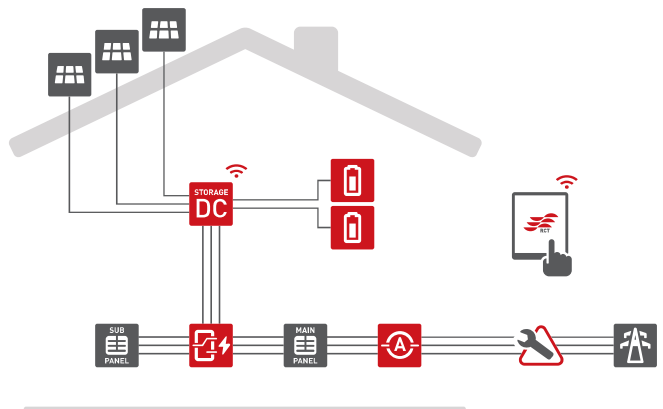
- Compact and lightweight housing
- Wall mounting
- Upgradeable

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	Single phase
Rated voltage	230 V
AC frequency	50 Hz
AC output voltage range	184 ~265 V

AC OUT (BACK UP)

Load connection	Single phase
Rated voltage	230 V
AC frequency	50 Hz
Rated apparent power	6,000 VA
Rated output current	26.1 A
Switch over time	< 2 s

AC INPUT (INVERTER)

Rated voltage	230 V
AC frequency	50 Hz

OTHERS

Operating temperature range	-25°C ... +60°C
Relative humidity	0 % - 100 %, non-condensing
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	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



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