



RCT Power RESS Product

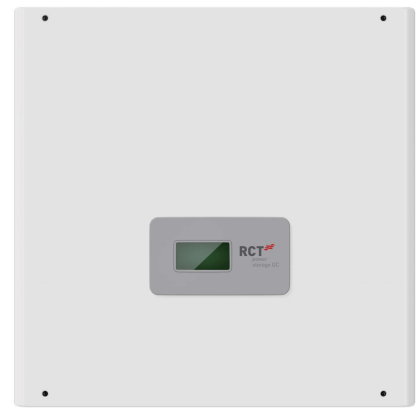
Residential Energy Storage System Solutions



POWER STORAGE DC

4.0 | 6.0 | 8.0 | 10.0

- Two independent MPP-trackers, switchable to parallel mode
- Max-Power Control and self-learning shade management
- Cascadable, expandable and combinable with existing PV-systems
- IP42 protection: Suitable for indoor installation



POWER STORAGE DC	4.0	6.0	8.0	10.0
DC INPUT				
Max. recommended DC power	5.4 kW / 6kW	8.1 kW / 9 kW	10.8 kW / 12 kW	13.5 kW / 15 kW
MPPT	2 (paralleling possible)			
Input per MPPT	1			
Max. DC current per MPPT	12 A (24 A in parallel mode)		14 A (28 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			
MPPT voltage range	265 V ... 800 V		380 V ... 800 V	
Max. voltage DC	1000 V			
BATTERY INPUT				
DC voltage range	120 V ... 600 V			
Max. charge / discharge current	20 A / 20 A		25 A / 25 A	
Max. charge / discharge power	9220 W / 4000 W	9220 W / 6000 W	11500 W / 8000 W	11500 W / 10000 W
AC OUTPUT (GRID-MODE)				
Real AC output power	4000 W	6000 W	8000 W	9900 W
Max. active power	4000 W	6000 W	8000 W	9900 W
Max. apparent power	6300 VA	6300 VA	10500 VA	10500 VA
Nominal AC current per phase	5.8 A	8.7 A	11.6 A	14.5 A
Max. AC current per phase	9.1 A	9.1 A	15.2 A	15.2 A
Rated frequency	50 Hz / 60 Hz			
Rated AC voltage	230 V / 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)			
PERFORMANCE				
Stand-by consumption	< 4.0 W	< 4.0 W	6.0 W	6.0 W
Maximum efficiency (PV2AC)	98.16 %	98.16 %	98.60 %	98.60 %
European efficiency (PV2AC)	97.60 %	97.70 %	98.33 %	98.35 %
Topology	Transformerless			
OTHERS				
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	IP42			
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)			
Type of installation	Wall mounting			
Dimensions (H x W x D)	570 x 585 x 200 mm			
Weight	30 kg		32 kg	
SAFETY / STANDARDS				
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			

POWER STORAGE AC

4.0 | 6.0

- Transformerless topology and dynamic power adjustment
- DC and AC connection with plug & play
- Multi-information LCD-display with RCT Power Portal for monitoring
- IP65 protection: Suitable for indoor and outdoor

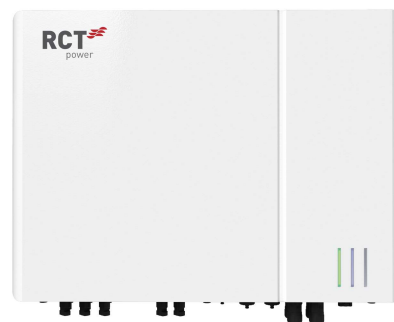


POWER STORAGE AC	4.0	6.0
BATTERY INPUT		
DC Voltage Range	120 V ... 600 V	
Max. charge / Discharge current	20 A / 20 A	
Max. charge / Discharge power	4000 W	6000 W
AC OUTPUT (GRID-MODE)		
Real AC output power	4000 W	6000 W
Max. active power	4000 W	6000 W
Max. apparent power	6300 VA	6300 VA
Nominal AC current per phase	5.8 A	8.7 A
Max. 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, 0.1 ms	
Max. fault current (RMS)	285 mA	
Rated AC voltage	230 V / 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	
PERFORMANCE		
Stand-by consumption	< 4.0 W	
Maximum efficiency (Bat2AC)	96.62 %	
European efficiency (Bat2AC)	96.41 %	
Topology	Transformerless	
OTHERS		
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	IP65	
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 (H x W x D)	570 x 440 x 200 mm	
Weight	22 kg	
SAFETY / STANDARDS		
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	

POWER STORAGE DC

6.0 SP

- Three independent MPP-trackers, suitable for dynamic power adjustment
- Max-Power Control-self-learning shade management
- Up to 2 high voltage batteries per inverter
- 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	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		
BATTERY INPUT			
DC Voltage range	120 V ... 520 V		
Max. charge / discharge current	25 A / 25 A		
Number of battery input	2		
AC OUTPUT (GRID-MODE)		AC OUTPUT (BACK-UP MODE) *	
Gird connection	1 phase	Max. AC output apparent power	6000 VA
Real AC output power	6000 W	Rated AC voltage	230 V, L/ N/ PE
Max. apparent power	6000 VA	Max. AC output current	26.1 A
Max. AC input apparent power	3000 VA	Rated frequency	50 Hz
Max. AC current per phase	26.1 A		
Rated frequency	50 Hz		
Rated AC voltage	230 V, L/N/PE		
AC voltage range	184 V ... 265 V		
Total harmonic distortion (THD)	< 3% at rated power		
Reactive power factor (cos phi)	1 (adjustable range 0.8 cap ... 0.8 ind)		
PERFORMANCE			
Stand-by consumption	< 5.0 W		
Max. efficiency (PV&Bat2AC)	97.1 %		
European efficiency	96.6 %		
Topology	Transformerless		
OTHERS			
PV disconnect switch	Integrated		
Data interface	BAT / CAN, WLAN, LAN, RS485		
Display	LED indicator		
Cooling	Convection		
IP degree of protection	IP65		
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 (H x W x D)	445 x 605 x 165 mm		
Weight	22 kg		
SAFETY / STANDARDS			
Safety	EN/IEC 62109-1, EN/IEC 62109-2, ANS/NZS 62368, AS/NZS 4777.2		
Grid support regulation	EN 50549-1, RD 647/UNE 217001/UNE 217002/NTS 631 Type A		
EMC	IEC/EN 61000-6-1/2/3/4		

* Backup power output via RCT Power Switch Box

POWER STORAGE DC

US 8.0 | 8.0 PRO

- 3 independent MPP-trackers, switchable to parallel mode
- Possible input voltage range between 120 V and 520 V
- Back-up power supply
- Multicolor LED light path display



POWER STORAGE DC		US 8.0 8.0 PRO	
DC INPUT			
Max. recommended DC power	12000 W		
MPPT	3		
Input per MPPT	1		
Max. DC current per MPPT	14 A		
Rated DC voltage	360 V		
DC start up voltage	120 V		
MPP voltage range	120 V ... 520 V		
Max. Voltage DC	520 V		
BATTERY INPUT			
DC Voltage Range	120 V ... 520 V		
Max. charge / Discharge current	25 A / 25 A		
Max. charge / Discharge power	11550 W / 8000 W		
AC OUTPUT (GRID-MODE)		AC OUTPUT (BACK-UP MODE)	
Gird connection	1 phase	Maximum output power	8000 W
Real AC output power	8000 W	Rated AC voltage	240 V
Nominal AC current	34 A	Nominal AC current	34 A
Frequency range	58.8 Hz ... 61.2 Hz	Nominal AC output frequency	60 Hz
Rated AC voltage	240 V		
AC voltage range	211 V ... 264 V		
Earth fault protection	RCD		
Total harmonic distortion (THD)	< 3%		
Reactive power factor (cos phi)	1 (adjustable range 0.8 cap ... 0.8 ind)		
PERFORMANCE			
Stand-by consumption	< 4.0 W		
Max. efficiency (PV-Grid)	97.94 %		
Max. efficiency (Battery-Grid)	97.48%		
European efficiency	97.50 %		
Topology	Transformerless		
OTHERS			
Data interface	BAT / CAN, WLAN, LAN, RS485		
Display	LED indicator		
Cooling	Convection		
Enclosure type	NEMA Type 1 (US 8.0)	NEMA Type 3R (US 8.0 PRO)	
Max. operating altitude	2000 m		
Max. relative humidity	5 - 95 % (non condensing)		
Typical noise	< 35 dB		
Operating temperature	-25°C ... 60°C (derating above 45°C)		
Size Power Inverter (H x W x D)	850 x 580 x 205 mm		
Size Power Switch (H x W x D)	850 x 320 x 205 mm		
Weight Power Inverter	34 kg		
Weight Power Switch	20 kg		
SAFETY / STANDARDS			
Safety	UL1741, CSA-C22.2 No. 107.1-16		
Grid support regulation	UL1741 SB, California Rule 21, HECO Rule 14, IEE1547		
FMC	FCC part 15 Class B		

POWER BATTERY

3.8 | 5.7 | 7.6 | 9.6 | 11.5
5.0 | 7.5 | 10.0 | 12.5 | 15.0

- 25A charge & discharge capability
- High voltage, high efficiency, low stress operation
- Lightweight components with plug and play
- Modular concept and usable capacity scalable

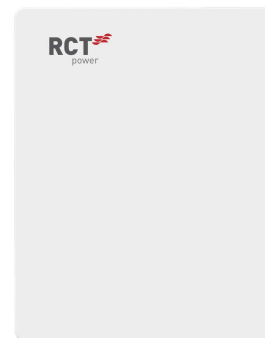


POWER BATTERY	3.8	5.7	7.6	9.6	11.5
ELECTRICAL PARAMETERS					
Nominal capacity	3.84 kWh	5.76 kWh	7.68 kWh	9.60 kWh	11.52 kWh
Usable capacity (90% DoD)	3.46 kWh	5.18 kWh	6.91 kWh	8.64 kWh	10.37 kWh
Cycle Life	5000				
Voltage range	120 V ... 173 V	180 V ... 260 V	240 V ... 346 V	300 V ... 432 V	360 V ... 520 V
Nominal voltage	154 V	230 V	307 V	384 V	461 V
Max. charge/discharge current	25 A / 25 A				
Standby consumption	< 5 W				
GENERAL					
Battery technology	LiFePO ₄				
Dimensions (H x W x D)	600 x 340 x 340 mm	830 x 340 x 340 mm	1060 x 340 x 340 mm	1290 x 340 x 340 mm	1520 x 340 x 340 mm
Weight	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 ... +50 °C				
Connector type	Quick Contact MC4 - Evo 2				
SAFETY / STANDARDS					
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
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	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
Max. charge/discharge current	25 A / 25 A				
Standby consumption	< 5 W				
GENERAL					
Battery technology	LiFePO ₄				
Dimensions (H x W x D)	598 x 345 x 345mm	828 x 345 x 345 mm	1058 x 345 x 345 mm	1288 x 345 x 345 mm	1518 x 345 x 345 mm
Weight	56.4 kg	81.6 kg	106.8 kg	132.0 kg	157.2 kg
Number of battery units	2	3	4	5	6
IP degree of protection	IP65				
Type of installation	Floor stand / Outdoor				
Operating temperature range	-18 °C ... +55 °C				
Connector type	Quick Contact MC4 - Evo 2				
SAFETY / STANDARDS					
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	EN/IEC 62619, IEC 63056, EN/IEC 62477, EN/IEC 62040-1, IEC 60730-1				

POWER SWITCH

BOX-SP



- Backup power supply
- Up to 6 kVA for single phase Storage DC 6.0 SP
- Switch-on delay less than 3 seconds
- Battery and PV system can be used as energy source

POWER SWITCH		BOX-SP	
AC OUT (ON GRID)		AC OUT (BACK UP)	
Grid connection	1-phase	Load connection	1-phase
Rated voltage	230 V	Rated voltage	230 V
AC frequency	50 Hz	AC frequency	50 Hz
AC output voltage range	184 V ... 265 V	Max apparent power	6000 VA
		Max output current	26.1 A
		Switch over time	< 3 S
AC INPUT (INVERTER)		OTHERS	
Rated voltage	230 V	Operating temperature range	-25 °C ... +60 °C
AC frequency	50 Hz	Relative humidity	0 % - 100 %
SAFETY / STANDARDS		Type of installation	Wall mounting
IP - class	IP65	Dimensions (H x W x D)	450 x 350 x 110 mm
Standards	AS/NZS 61439-1/2/3, IEC/EN 61439-1/2/3	Weight	8 kg

POWER SWITCH

63/25 | 63/25-3

- Provision of backup grid
- 3-phase supply
- Fast switching
- Power Sensor included



POWER SWITCH		63/25 63/25-3	
POWER DATA		OTHERS	
Nominal voltage	230 / 400 VAC	Operating temperature range	-5°C ... +40°C
Nominal frequency	50 Hz	Relative humidity	5 ... 95%
Max. prospective short circuit current	10 kA	Type of installation	Wall mounting
Max. grid-side fuse	63 A	Dimensions (HxWxD)	446 x 622 x 161 mm
Allowed battery inverters	RCT Power Storage DC 4.0 / 6.0 / 8.0 / 10.0	Weight	App. 15 kg
Terminals meter/load/backup	Load spring clamps up to 16mm²	SAFETY / STANDARDS	
Terminals Power Storage	Spring clamps up to 6mm²		
Losses in standby-mode	App. 15W (63/25)		
	App. 18W (63/25-3)		
Operating losses at 5/10/20/30kW and full feed in of the Power Storage DC	App. 5 / 8 / 20 / 38 W (63/25)		
	App. 7 / 12 / 30 / 55 W (63/25-3)		
Permitted grid form	TN-C-S / TN-S / TT (63/25)		
	TN-C-S / TN-S (63/25-3)		

MORE RELIABLE GREEN ENERGY BETTER FUTURE LIFE

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