

Test Winner 5 & 10 kW Storage Systems

POWER BATTERY

3.8 | 5.7 | 7.6 | 9.6 | 11.5

MODULAR HIGH VOLTAGE 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 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
- Optimised, German battery management system
- Plug & play

MONITORING VIA APP

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

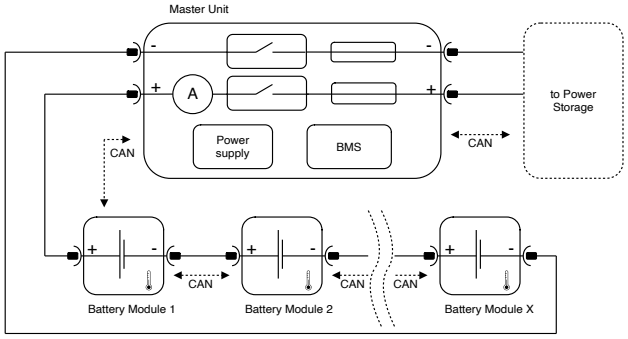
FLEXIBLE AND UPGRADEABLE

- 2 - 6 battery stacks per battery tower
- Scalable battery capacity (with 1.9 kWh stacks each)
- upgrade to double tower (DT) configuration up to 23.0 kWh
- Suitable for back-up systems

SUSTAINABLE

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

BLOCK DIAGRAM



POWER BATTERY	3.8	5.7	7.6	9.6	11.5
ELECTRICAL PARAMETERS					
Nominal capacity (at 25°)	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
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) (mm)	600x340x340	830x340x340	1060x340x340	1290x340x340	1520x340x340
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 ~ +40 °C				
Connector type	Weidmüller PV-Stick				
SAFETY / STANDARDS					
Safety class	I				
Certificates	UN 38-3, EN/IEC 62619, EN/IEC 62133				
EMC	EN61000-6-2, EN61000-6-3, EN61000 – 4 -2 , -3, -4, -8				
Safety	EN/IEC 61010-1:2010				
Guarantee	10 Years / guaranteed energy throughput*				

POWER UP.
SCALE UP.
COST DOWN.



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

© RCT Power. Images may differ. Revisions reserved. 2025V1EN_EU

RCT power

1.2 Use as intended

The battery systems - Power Battery - are stationary battery systems with lithium iron phosphate rechargeables (LiFeP04).

A Power Battery together with a Power Storage forms a Power Storage System which stores the generated PV energy smartly and highly efficiently and provides it - based on commercial aspects - to the consumer.

In particular, a Power Battery 15.2 /19.2 /23.0:

- is made up of 2 identical systems Power Battery 7.6, 9.6 or 11.5, also refer to → Chapter 1.8 "Scope of delivery", Page 10. Other combinations are not permitted.
- may only be operated with Power Storage DC 8.0 / 10.0. Operation with other AC/DC inverters as well as Power Storage DC 4.0 / 6.0 or Power Storage AC is not permitted.
- For detailed information on the combinations permitted, have a look in our technical documentation - TD25_RCT Power compatibility matrix - in the download section under www.rct-power.com

1.3 Use contrary to that intended

The Power Battery systems have not been developed for other applications or for connections to other appliances. Any use differing from the use as intended is held to be misuse.

RCT Power GmbH is not liable for damage resulting from misuse.

Any misuse terminates the warranty, guarantee and general liability of the manufacturer.

1.8 Scope of delivery

Our products are checked for being in a proper condition before their delivery.

Despite thorough packaging, damage in transport may occur which, as a rule, haulage companies are responsible for.

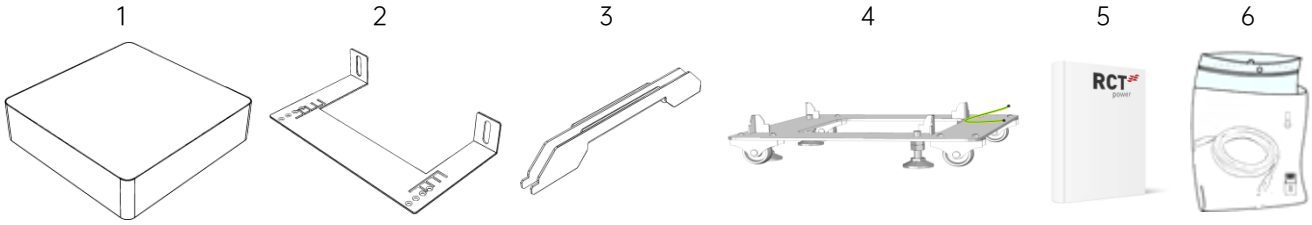
If you detect damage to the packaging or to the Power Battery, then do immediately contact the haulage company. A damaged Power Battery must not be commissioned.

Every battery system is made up either of 1 Power Battery BMS Master* combined with 2 to 6 Power Battery modules or 1– 2 Power Battery BMS Master+* combined with 8 to 12 Power Battery modules:

Version	Number of BMS	in ...	Power Battery modules in ...
Power Battery 3.8	1	1 cardboard box	2 cardboard boxes
Power Battery 5.7	1	1 cardboard box	3 cardboard boxes
Power Battery 7.6	1	1 cardboard box	4 cardboard boxes
Power Battery 9.6	1	1 cardboard box	5 cardboard boxes
Power Battery 11.5	1	1 cardboard box	6 cardboard boxes
Power Battery 15.2	2	2 cardboard boxes	8 cardboard boxes
Power Battery 19.2	2	2 cardboard boxes	10 cardboard boxes
Power Battery 23.0	2	2 cardboard boxes	12 cardboard boxes

*within the document BMS, Power Battery Master, Power Battery BMS Master and Battery Master are considered synonyms

1.8.1 Power Battery Master



Item	Description
1	1x Power Battery Master
2	1x wall fixture for fastening the top Power Battery module
3	2x assembly handle
4	1x base frame, horizontally adjustable • Art. 210-0001 without earthing connection • Art. 210-0003 with earthing connection
5	1x operating instructions (this document)
6	1x accessories with: - 1x terminal resistor (RJ45) - 1x patch cable RJ45/Cat5e 5 m - 1x ring eyelet for earthing PE conductors of a 6 mm² cross-section

9 Technical data

Single tower **Double tower**	**3.8**	**5.7**	**7.6** ***15.2***	**9.6** ***19.2***	**11.5** ***23.0***
ELECTRICAL PARAMETERS					
Nominal capacity	3.84 kWh	5.76 kWh	7.68 kWh *15.36 kWh*	9.60 kWh *19.20 kWh*	11.52 kWh *23.04 kWh*
Usable capacity 90 % DoD	3.46 kWh	5.18 kWh	6.91 kWh *13.82 kWh*	8.64 kWh *17.28 kWh*	10.37 kWh *20.74 kWh*
Number of cycles at 80 % remaining capacity	5,000				
Voltage range	120 – 173 V	180 – 260 V	240 – 346 V	300 – 432 V	360 – 520 V
Nominal voltage	154 V	230 V	307 V	384 V	461 V
Max. charge /discharge current	25 A/25 A				
Intrinsic consumption	< 5 W				
COMMUNICATION/ INTERFACES					
Power Storage interface	CAN				
GENERAL					
Battery technology	LiFeP04				
Dimensions per tower Height x width x depth	0.53x0.34x0.34m	0.78x0.34x0.34m	1.03x0.34x0.34m	1.27x0.34x0.34m	1.52x0.34x0.,34m
Weight per tower (1 module 24 kg)	54 kg	78 kg	102 kg	126 kg	150 kg
Number of modules per tower	2	3	4	5	6
IP-protection class	IP42				
Installation type	standing, indoor				
Max. installation height above sea-level	2,000 m				
Relative air humidity	5 – 85 % (non-condensing)				
Pollution degree	2				
Over-voltage category	CAT II				
Operating temperature range	5 – 40 °C				
Plug type	Weidmüller PV stick				
SAFETY/ STANDARDS					
Protection class	1				
Certification	IEC 60730-1, EN 61000-6-2, EN 61000-6-3, IEC 61010-1, IEC 62619, UN 38-3,				
EMC	EN 61000-6-2, EN 61000-6-3				