



POWER PLANT 2

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



PV-module connection



back-up power



manage energy sources and tariffs



increase self-sufficiency

RELIABLE POWER SUPPLY

- 233 kWh outdoor-rated cabinet storage system
- Backup power for grid outages
- Solar integration, storing excess solar power

SAFE TECHNOLOGY

- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

SMART ENERGY MANAGEMENT

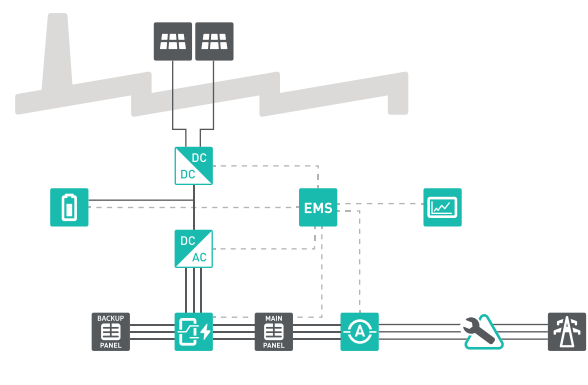
- Software RCT RPEMS
- Self-Consumption
- Back-up power
- Peak shaving
- Micro-grids
- Demand management
- Demand response
- PV-storage integration

HIGH EFFICIENCY

- Highly efficient AC/DC inverter
- Smart energy monitoring cloud platform for remote monitoring and control
- Intelligent charging and reduction of peak loads
- High degree of performance
- Automatic back-up power switching

EASY OPERATION

- Modular, scalable design for precise project sizing
- Multi-parallel system supported
- Optional DC/DC converter for PV-module connection



POWER PLANT 2

CESS233-
100-01A

CESS233-
100-01B

CESS233-
100-01C

CESS233-
100-01D

BATTERY

Nominal capacity	233 kWh
Battery technology	LiFePO ₄
Charge / discharge rate	0.5 P
Battery pack structure	1P52S
Cooling	Liquid Cooling
BMS	Integrated
Rated DC voltage	832 Vdc
DC voltage range	715 - 928 Vdc

PCS

Operating voltage range (DC connection)	650 - 950 Vdc
Rated DC power	100 kW
Rated AC power	100 kW
Rated AC current	144 A
AC Rated voltage	400 Vac
AC line frequency	50 / 60 Hz
Peak efficiency	98.50%

PV INPUT

Max. number of MPPTs	2	2	/	/
Max. string voltage	900 Vdc	900 Vdc	/	/
Max. input current per MPPT	80 A	80 A	/	/
Rated power	100 kW	100 kW	/	/

STS

Rated power	200 kW	/	200 kW	/
Rated voltage	400Vac	/	400Vac	/
Rated Frequency	50 / 60 Hz	/	50 / 60 Hz	/
Long-term overload capacity	110%	/	110%	/

ENERGY MANAGEMENT SYSTEM

EMS	Integrated
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COMMUNICATION

Communication protocol	Modbus TCP/RTU, CAN
Touch panel	15,6" industrial standard
Cloud	Yes
App	Yes

OPERATION

Relative operating humidity	0 ~ 95 %RH, no-condensation
Operating temperature range	-20°C to +45°C
Operating altitude	≤ 2000 m

DIMENSIONS (TOTAL)

Dimensions (W x H x D)	1600 x 2200 x 1300 mm			
Weight	3200 kg	3150 kg	3150 kg	3100 kg

SAFETY / STANDARDS

Protection	IP54			
Corrosion-proof grade	C4			
Safety features	a. Flammable/explosive Gas detection b. Flammable/explosive Gas exhaust c. Smoke Detection d. Temperature Detection	e. Aerosol Fire Extinguish f. Siren and Strobe Alarm g. Emergency Stop Button h. Dry Pipe and Sprinkle		
Certification	UN 38.3, IEC 62619, IEC 63056, EN 62477, IEC 60730, EN 62933, EN 61000			