Energy Storage DOMUS Commercial

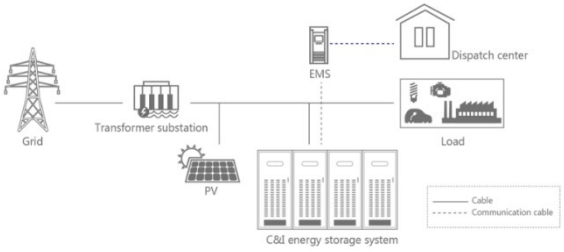
Caesar Commercial Energy Storage
1000 kW battery inverter
1500 kWh battery storage

Applications:

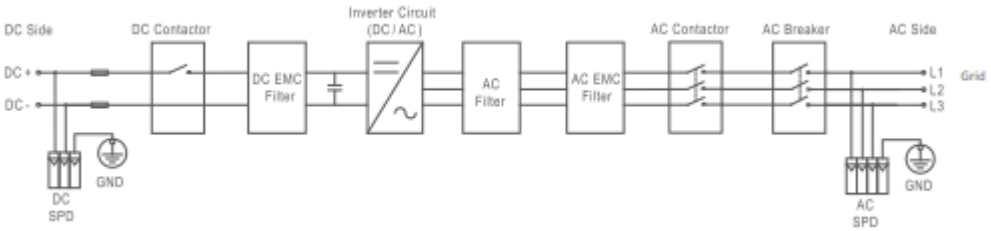
- Community and commercial buildings
- Public parking lot
- Hospitals and shopping centers
- Grid services for utilities
- Micro grids

Features and advantages

- Flexible configuration
- Remote monitoring
- Modular Design & rapid installation and easy to operate and maintain.
- Safest Battery & Perfect Compatibility
- High reliability (suitable for various complex enviroments)
- High DC voltage, low power loss
- Certifications Available



Circuit Diagram



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Battery Inverter

System Type	SC1000TL
DC Data	
DC voltage range	810 ~ 1,200V
Max. DC current	1,358 A
Grid Data	
Nominal AC power	1,000 kW
Max. AC power (continous operation)	1,100 kVA
Max. AC current	1,176 A
Max. THD of current	<3% (at nominal power)
DC component	<0.5%
Nominal grid voltage	540V
Grid voltage range	475V ~ 594V
Nominal grid frequency	50Hz
Grid frequency range	45 ~ 55 Hz
Power factor at nominal power	>0.99
Power factor range	0.8 (leading) ~ 0.8 (lagging)
Efficiency	
Max. efficiency	98,40%
General Data	
Dimensions (WxHxD)	1,606 x 2,065 x x935 mm
Weight	1,400 kg
Degree of protection	IP21
Operating temperature range	-30°C to 50°C
Relative humidity	0 ~ 95% (non-condensing)
Max. working altitude	6,000m (>4,000m derating)
Display	Touch screen
Cooling concept	Teperature-controlled forced air cooling
Insulation method	Transformerless
Self-consumption at stop	<127 W
Noise emission	<70 dBA 1m
Communication port	RS485, Ethernet, CAN
Communication protocol	Modbus RTU, Modbus TCP, IEC104
Certificates	TÜV, BDEW, SGSF

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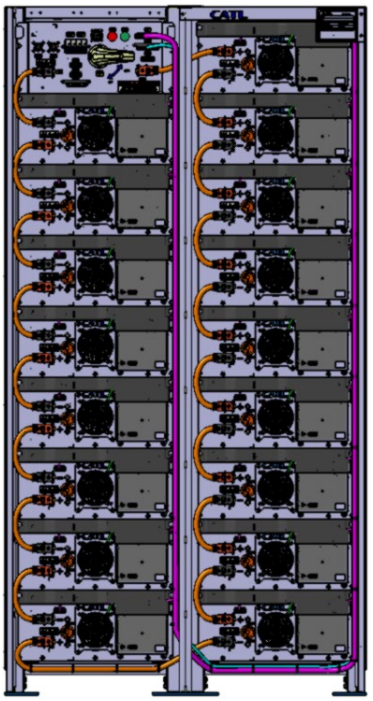
CAESAR – Technical Data

Lithium Iron Phosphate Battery

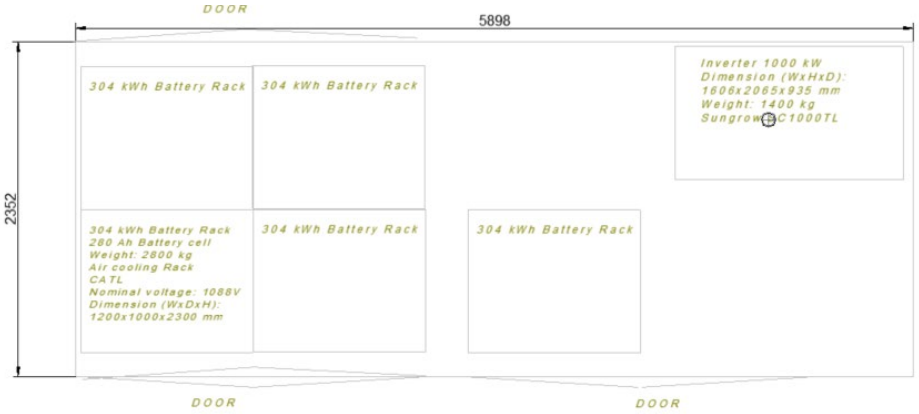
Product Features:

- High integrated: Battery, BMS, PCS, Air condition, fire protection, power distribution and monitoring system are integrated into independent cabinet.
- High Safety: Using high safety LFP battery; real-time monitoring of each cell voltage and temperature, with pre-warning and protection functions such as over-current, over-voltage, over-temperature and short circuit; equipped with heptafluoropropane fire extinguisher system, gas protection tube in each battery pack to achieve precise fire recognition; perfect temperature control design.
- High protective level: IP 55
- Modular and standardized design: Cabinet for easy installation and maintenance, support multi-cabinet parallel expansion.
- Certification: Cell and Battery pack does have IEC, UN-certification

Battery Rack	
DC Parameter (Battery)	
Battery Type	LFP
Nominal Capacity [Ah]	280
Rated Voltage [V]	1'088
Voltage range	952.0 ~ 1,224.0
Pack energy [kWh]	17.9
Pack weight [kg]	140
Pack number	17
Rack energy [kWh]	304.6
Dimension (WxDxH)[mm]	1,200 x1,000 x 2,300
Weight [kg]	2'800
Number of Rack´s	5
Total capacity [kWh]	**1'523**



20” HQ Container solution
1 MW /1.5 MWh



Subject to change without prior information.

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CAESAR – Technical Data

The focus is on an EMS for local energy solutions and sector coupling

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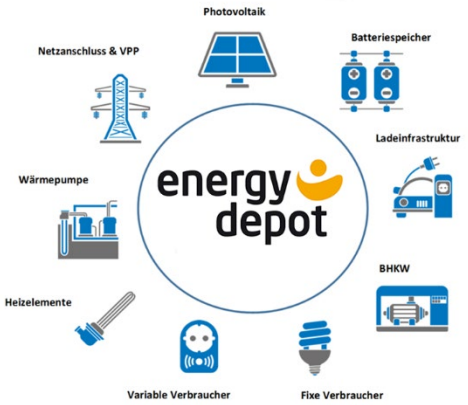


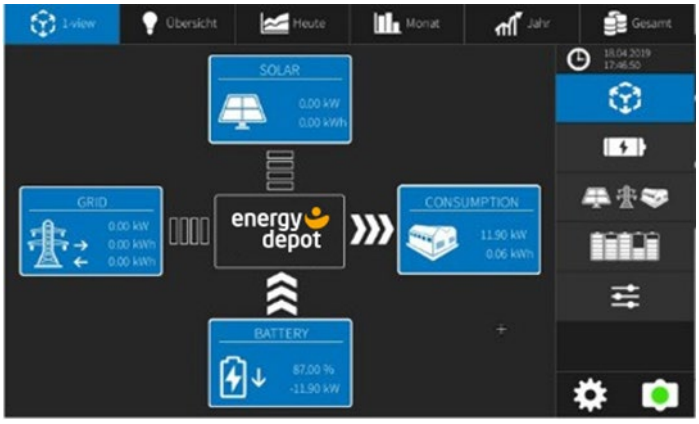
technology platform for decentralized energy solutions

- ✓ Local hardware (controller)
- ✓ Data portal
- ✓ Backend and cloud
- ✓ Mobile and app
- ✓ Remote maintenance
- ✓ Flexible connection of third-party systems
- ✓ Local industrial control
- ✓ Network control center
- ✓ VPP
- ✓ IoT Hub
- ✓ A technology platform for network integration according to VDE-AR-N 4100,

VDE-AR-N 4105 and VDE-AR 4110

- ✓ photovoltaic systems
- ✓ Battery storage
- ✓ CHP
- ✓ Charging devices

Keep an overview of your energy at all times.



Network-compliant integration according to TAR low voltage VDE-AR-N 4105 and TAR medium voltage VDE-AR-N 4110

- ✓ Active power management
- ✓ reactive power management
- ✓ Frequency-based active power control P (f)
- ✓ Process data exchange

✓ Active control of loading and unloading

- ✓ Shift Peak shifting
- ✓ Peak shaving
- ✓ Mains connection power limitation
- ✓ Zero power infeed

✓ Cascading of battery storage (virtual storage cluster) is possible regardless of the manufacturer and product type

✓ Energy Depot EMS takes over all safety and shutdown functions in the battery storage system

✓ Extensive functions for the control of energy solutions in "off-grid" operation

For detailed information send email to: info@energydepot.ch ask for commercial energy storage solution.

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