



CONNECT SERIES

DC Coupled Battery Solution



Flagstaff | Baroota Solar Farm SA

WORLD CLASS BATTERY ENERGY STORAGE TECHNOLOGY

DC COUPLED BATTERY (UP TO 5 MW)

EVO Power's CONNECT Series is a DC Coupled Battery Solution engineered to amplify the revenue stream of utility-scale Solar PV Plants (capable of DC-Coupled SMA PV Inverters).

Designed in close collaboration with OEM partners, CONNECT Series allows increasing the size of the PV plant thereby facilitating clipping recapture and time shifting the stored energy.

The DC Coupled PV Plant also allows for participation in Market services such as FCAS (limited events), Energy Arbitrage etc.

Furthermore, in most cases, minimal or no additional grid studies are required to retrofit the PV Plant with CONNECT Series.

CONNECT utilises the latest utility-grade LFP Liquidcooled Battery Technology with each freestanding IP66 battery including built in heaters, chillers, fire-suppression system, and market leading performance warranties.

Power you can trust that won't cost the earth

SPECIFICATIONS

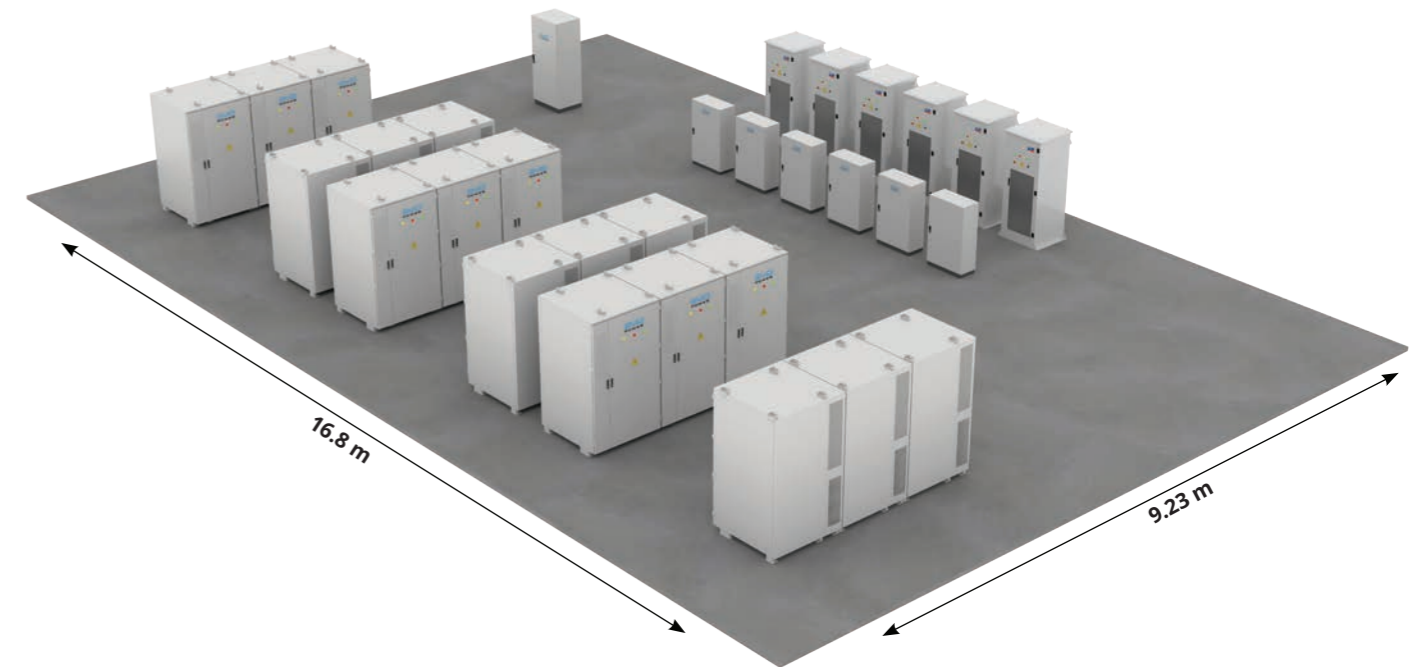
DC/DC CONVERTER SPECIFICATIONS	
Max. Continuous Power (at 30 °C)	500 kW at 1000 VDC 600 kW at 1200 VDC to 1500 VDC
Max. Continuous Current (at 30 °C)	+/- 500 A
Average Efficiency	98.2%
BATTERY STORAGE	
Nominal Energy DC / C Rating	372.7 kWh / 0.5C or 1.0C
Voltage Range (Nominal Voltage)	1164.8 ~ 1497.6 VDC (1331.2 VDC)
Chemistry	LFP
DC Fusing	DC fuses prewired as standard inside Battery Rack
Fire Suppression System	Pre-integrated Fire Suppression system with smoke and heat detectors plus aerosols
Battery Management Unit	Slave BMU supplied with each Battery Rack
BATTERY COMBINER	
Rated Current	500 A
DC Fusing	2 x 750A SQB-DC153 fuse per Battery supplied
CONTROL PANEL	
Input Voltage	400VAC
Fire Suppression system	Master Fire Control Panel with 4 hours of UPS backup
Battery Management Unit	Master BMU supplied
Battery Data Logger	Supplied for Data Logging of Battery for Warranty Support
ENVIRONMENTAL	
Operating Temperature Range / Humidity Range	Battery: -30°C ~ 55°C, DC-DC Converter: -25°C ~ 55°C 0 to 95%
IP Ratings	DC-DC Converter IP54, Energy Storage IP66, Battery Combiner IP54, Control Panel IP54
COMPLIANCE	
DC-DC Converter Standards	IEC 61000-6-2, IEC 62109-1, UL 1741, UL 62109-1
Battery Related Standards	UN 38.3, UL 1973, UL 9540A, IEC 62619, IEC 61000-6-2/-4, IEC 62477-1
Battery Combiner	AS 61439
DIMENSIONS & WEIGHTS	
System Dimensions (mm, L x W x H)	1001 x 851 x 2,045 per DC-DC Converter, 800 x 400 x 1,200 per Battery Combiner, 1,300 x 1,300 x 2,280 per Battery Rack, 600 x 800 x 1,920 per Control Panel
Weight of Key Components	590 kg per DC-DC Converter, 250 kg per Battery Combiner, 3,500 kg per 372.7 kWh Battery Rack, 250 kg per Control Panel

Note: Client is required to provide 3ph 400VAC Auxiliary power supply for DC-DC Converters & Battery Racks.

EXAMPLE LAYOUT




Example layout for CONNECT Series 3 MW DC-DC / 6.7 MWh Battery solution, including:

- ≡ 18 x Battery Racks
- ≡ 6 x DC/DC Converters
- ≡ 6 x Battery Combiners
- ≡ 1 x Control Panel





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