EVO POWER®

AMP

GRID & UTILITY
MEDIUM VOLTAGE BESS

Power your way

AUSTRALIAN ENGINEERED

- Locally designed, tested and manufactured to stringent quality and safety standards.

LOW CAPEX

- Fully integrated and tested plug and play PCS Station and battery container, reducing construction and installation costs.
- Aux Power and metering provision included for reduced balance of system cost.

EFFICIENT IN ALL CONDITIONS

- Liquid-cooled inverter and battery technology improving system performance.
- Tier 1 inverter technology with full power output up to 45º C designed for Australian conditions.

MULTI-MODE

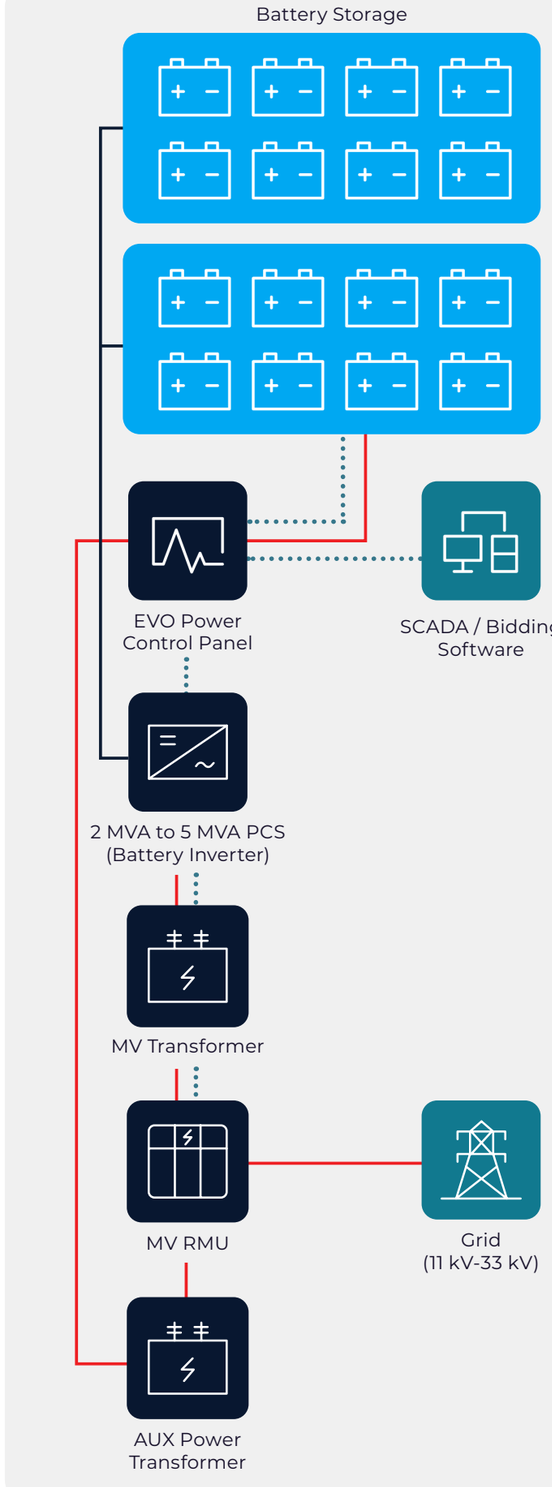
- Proven technology to participate in all eight contingency FCAS markets and energy trading, unlocking new diversified revenue streams.
- Dynamic grid support with synthetic inertia and Black Start capabilities.

TAKE CONTROL

AMP is EVO Power's Medium Voltage Battery Energy Storage System (BESS) that is engineered with value, flexibility, and scalability in mind.

Designed to provide Grid support and Ancillary services such as Frequency Regulation, black start and various other functions, AMP is a 11 kV ~ 33 kV BESS which is scalable in 2 MVA up to 4.98 MVA power increments with various energy storage capacity options.

EVO Power supplies these cost-effective, long-life energy storage solutions with market leading warranties, local content, technical support and after-sales services.



CONTROL PANEL

- Switchboard and UPS
- Plant Fire Control Panel
- Auxiliary Power
- Plant Controller

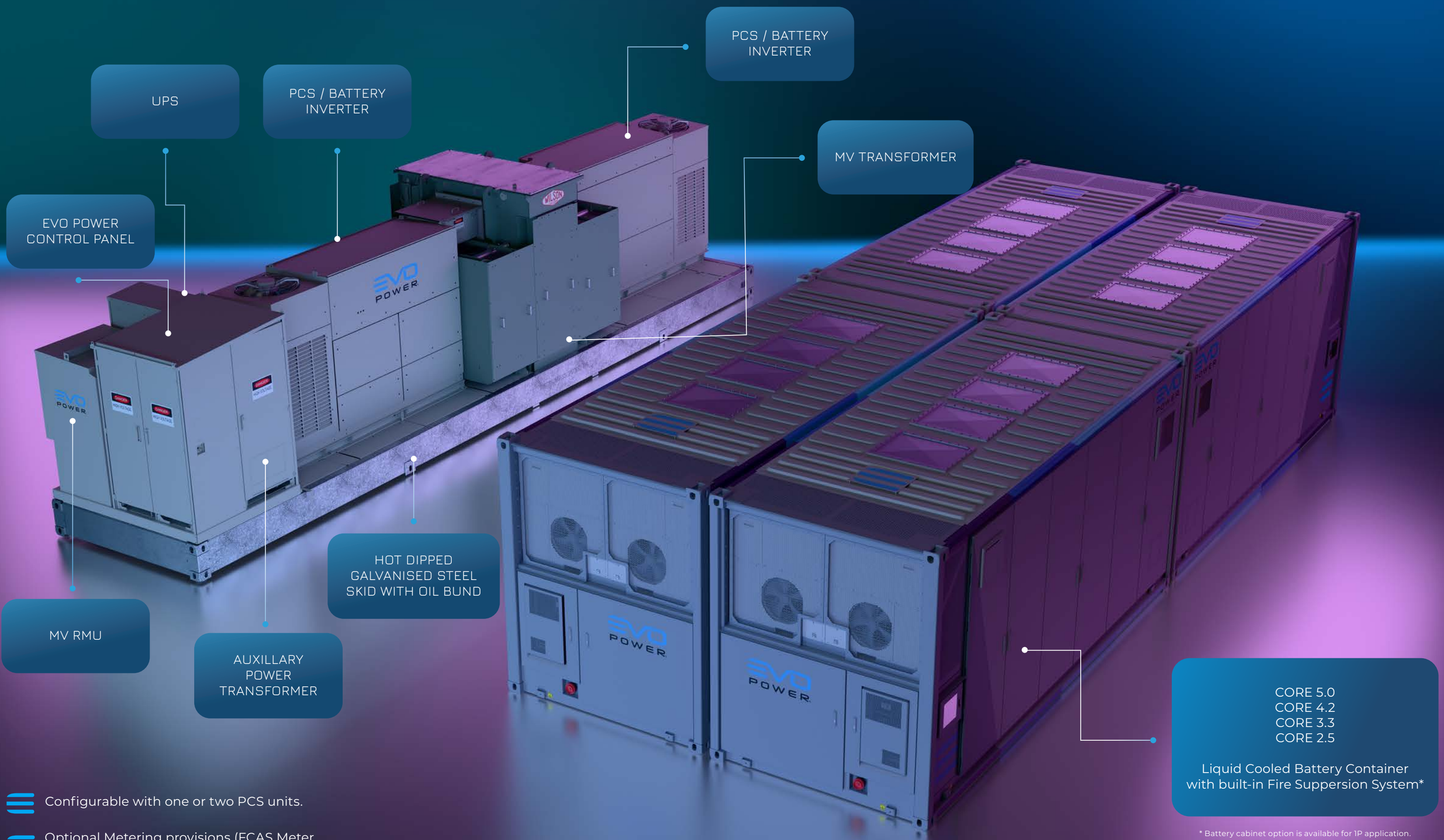
- COMMUNICATION
- AC POWER
- DC POWER
- CORE Battery Container
- AMP Power Station
- External

UNLOCK POTENTIAL

TAKE FULL ADVANTAGE OF AMP WITH GRID INTEGRATION.

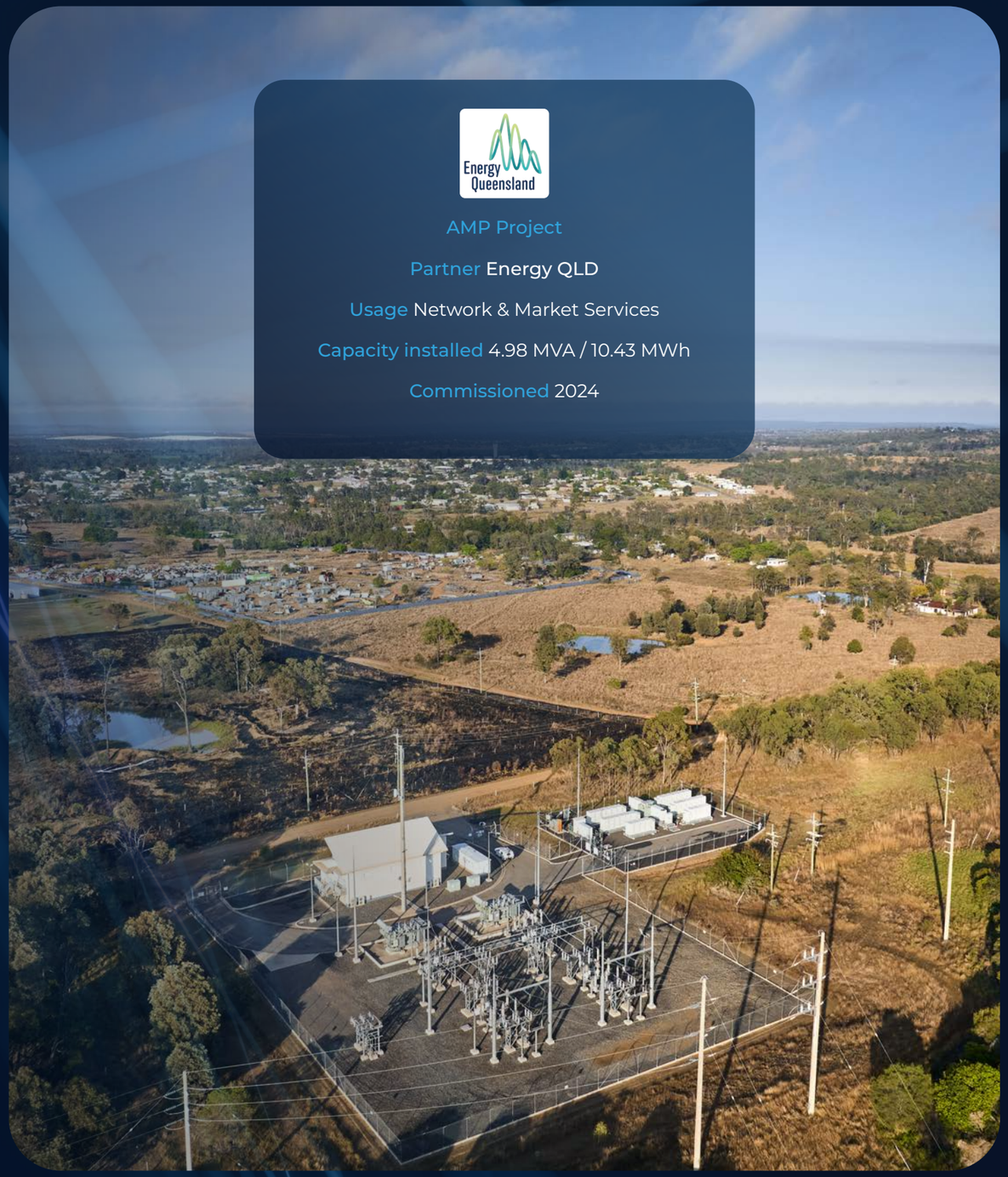
EVO POWER MODBUS API

- VPP integration with existing VPP partners
- Microgrid Functionality
- Market Services Ready (including VF FCAS)
- Options to connect to DNP3 or other protocols



- Configurable with one or two PCS units.
- Optional Metering provisions (FCAS Meter, Generation Meter etc.) is available on request.

* Battery cabinet option is available for 1P application.



AMP Project

Partner Energy QLD

Usage Network & Market Services

Capacity installed 4.98 MVA / 10.43 MWh

Commissioned 2024

SINGLE PCS AMP BESS

AMP POWER STATION	2.0 MVA	2.49 MVA
INVERTER DATA		
Inverter Power @ 45 °C [1]	2.0 MVA	2.494 MVA
Current @ 45 °C	1,925 A	2,091 A
Frequency	50 Hz	
THD (Total Harmonic Distortion)	<3%	
Operating efficiency / CEC	98.7% / 98.5%	
Power Factor	1	
Power Factor adjustable	Yes, 0 - 1 (leading / lagging)	
Thermal management	Liquid Cooled	
TRANSFORMER DATA		
Cooling Type	KNAN	
Vector Group	Dy11 / YNd11	
AUX. TRANSFORMER DATA		
Power	Up to 150 kVA	
MV / LV Voltage	11 kV ~ 33 kV / 400 V	
RMU		
Rated Voltage	Up to 36kV	
Rated Current	630 A	
Rated short Circuit Current	25 kA for 1 second	

BATTERY STORAGE (incremental)	1P Battery Cabinet	CORE 3.3	CORE 4.2	CORE 5.0
Cell Chemistry	Lithium Iron Phosphate Battery (LiFePO4 or LFP)			
Nominal energy (DC) [2]	379.3 kWh (1P)	3,343 kWh (0.5P)	4,179 kWh (0.5P)	5,015 kWh (0.5P)
Configuration	1P416S	4P416S	5P416S	6P416S
Thermal management	Liquid Cooled			
ENVIRONMENTAL				
Degree of Protection	IP55			
Ambient temperature	-30 °C to +55 °C			
Relative humidity (non-condensing)	0-100% (Outdoor)			
Maximum altitude	1,000 m (for installations beyond 1,000 m - please contact EVO Power)			
COMPLIANCE				
Compliance AMP Power Station	IEC 62920, IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-4, IEC 61000-3-11, IEC 61000-3-12, IEC 62109-1, IEC 62109-2, IEC 62116, EN 50178, FCC Part 15, AS3100, IEC 60076 (Trasformer)			
Compliance Battery Storage	UN 38.3, UL 1973, UL 9540A, IEC 62619, IEC 61000.6.2/.4, NFPA855			
DIMENSIONS & WEIGHTS				
Dimensions (AMP Power Station)	10,000 x 2,500 x 1,840 (L x W x H in mm)			
Dimensions (Battery Storage)	1,390 × 1,344 × 2,348 (L x W x H in mm)	6,058 × 2,438 × 2,896 (L x W x H in mm)	6,058 × 2,438 × 2,896 (L x W x H in mm)	6,058 × 2,438 × 2,896 (L x W x H in mm)
Weight (AMP Power Station)	15,200 kg			
Weight (Battery Storage)	3,515 kg	33,000 kg	39,000 kg	45,000 kg

1. Other power ratings available upon request. Please contact EVO Power for further details.
2. Other battery capacity / power ratings available upon request. Please contact EVO Power for further details.

Please contact EVO Power for the detailed Warranty Statement.
Specifications may be updated without notice, please refer to the EVO Power website for the current information.

DUAL PCS AMP BESS

AMP POWER STATION	4.0 MVA	4.98 MVA
INVERTER DATA		
Inverter Power @ 45 °C [1]	4.0 MVA	4.988 MVA
Current @ 45 °C	1,925 A	2,091 A
Frequency	50 Hz	
THD (Total Harmonic Distortion)	<3%	
Operating efficiency / CEC	98.7% / 98.5%	
Power Factor	1	
Power Factor adjustable	Yes, 0 - 1 (leading / lagging)	
Thermal management	Liquid Cooled	
TRANSFORMER DATA		
Cooling Type	KNAN	
Vector Group	Dy11y11 / YNd11d11	
AUX. TRANSFORMER DATA		
Power	Up to 250 kVA	
MV / LV Voltage	11 kV ~ 33 kV / 400 V	
RMU		
Rated Voltage	Up to 36kV	
Rated Current	630 A	
Rated short Circuit Current	25 kA for 1 second	

BATTERY STORAGE (incremental)	1P Battery Cabinet	CORE 3.3	CORE 4.2	CORE 5.0
Cell Chemistry	Lithium Iron Phosphate Battery (LiFePO4 or LFP)			
Nominal energy (DC) [2]	379.3 kWh (1P)	3,343 kWh (0.5P)	4,179 kWh (0.5P)	5,015 kWh (0.5P)
Configuration	1P416S	4P416S	5P416S	6P416S
Thermal management	Liquid Cooled			
ENVIRONMENTAL				
Degree of Protection	IP55			
Ambient temperature	-30 °C to +55 °C			
Relative humidity (non-condensing)	0-100% (Outdoor)			
Maximum altitude	1,000 m (for installations beyond 1,000 m - please contact EVO Power)			
COMPLIANCE				
Compliance AMP Power Station	IEC 62920, IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-4, IEC 61000-3-11, IEC 61000-3-12, IEC 62109-1, IEC 62109-2, IEC 62116, EN 50178, FCC Part 15, AS3100, IEC 60076 (Trasformer)			
Compliance Battery Storage	UN 38.3, UL 1973, UL 9540A, IEC 62619, IEC 61000.6.2/.4, NFPA855			
DIMENSIONS & WEIGHTS				
Dimensions (AMP Power Station)	10,000 x 2,500 x 1,840 (L x W x H in mm)			
Dimensions (Battery Storage)	1,390 × 1,344 × 2,348 (L x W x H in mm)	6,058 × 2,438 × 2,896 (L x W x H in mm)	6,058 × 2,438 × 2,896 (L x W x H in mm)	6,058 × 2,438 × 2,896 (L x W x H in mm)
Weight (AMP Power Station)	26,000 kg			
Weight (Battery Storage)	3,515 kg	33,000 kg	39,000 kg	45,000 kg

1. Other power ratings available upon request. Please contact EVO Power for further details.
2. Other battery capacity / power ratings available upon request. Please contact EVO Power for further details.

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CONFIGURATION OPTIONS

1 PCS + 1 Container (2.494 MVA / 5 MWhdc)

2 PCS + 2 Containers (4.988 MVA / 10 MWhdc)

1 PCS + 2 Containers (2.494 MVA / 10 MWhdc)

2 PCS + 4 Containers (4.988 MVA / 20 MWhdc)

EVO POWER®

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