Ampd Silo Energy Storage System

Maintenance-free Li-ion energy storage for mission critical backup







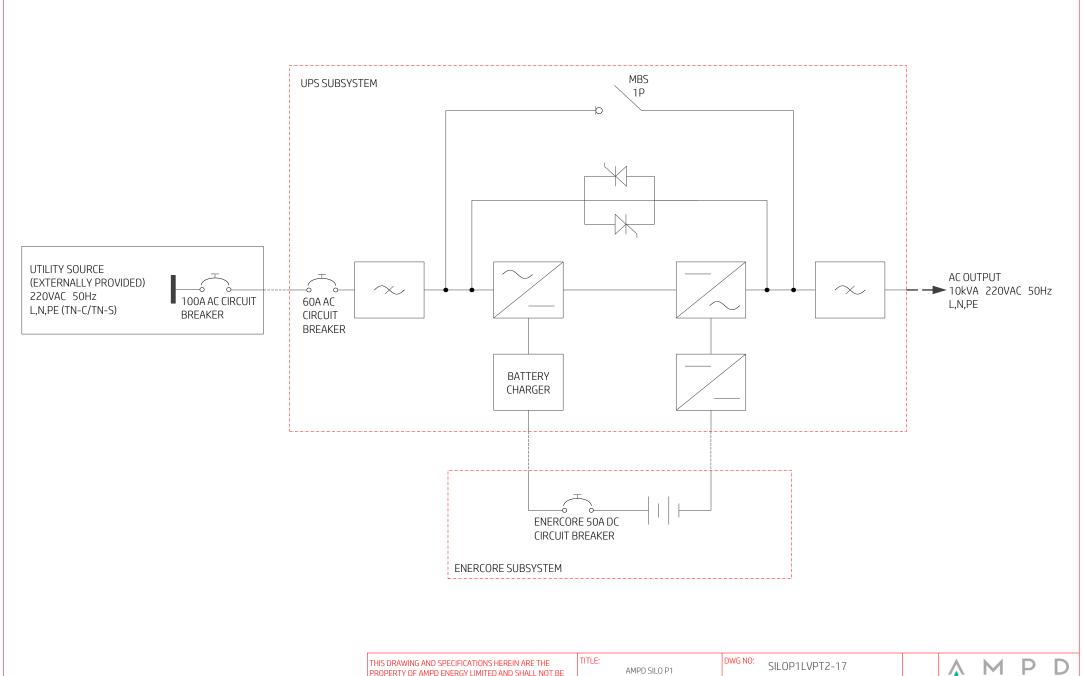




Ampd Silo

Key Specifications

		Ampd Silo P1	Ampd Silo P3	Ampd Silo P3+		
Maximum energy storage capacity		16.8 kWh				
EnerCore configuration		8 x ESM-F battery modules (4 series, 2 parallel)				
Topology		Double conversion, true online, high frequency IGBT based				
Maximum power output		10 kVA / 8 kW	20 kVA / 16 kW	20 kVA / 18 kW		
Phase		1 phase in, 1 phase out	3 phase in, 3 phase out			
Input	Min. circuit breaker rating	100 A	80 A			
	Voltage	120 - 276 VAC	208 - 478 VAC			
	Frequency	46 - 64 Hz	40 - 70 Hz			
Output	Voltage	220 / 230 / 240 VAC ± 1%	380 / 400 / 415 VAC ± 1% (3Ph + N + PE)			
	Frequency (in Instant Mode)		50 / 60 Hz ± 0.1 Hz			
	Frequency (in Eco Mode)	Phase locked with input				
	Wave form	Pure sine wave				
	THD	< 3% with li	near loads	ads < 2% with linear loads		
	Overload capability	< 105% - 125% 125% - 135% >135%: 0.5	: 30 seconds	< 110%: 60 minutes 110% - 125%: 10 minutes >150%: 60 seconds		
	Configuration	8 x ESM-F battery modules (4 series, 2 parallel)				
	Battery cell	224 x 2.55 Ah, 3.6V Li-ion cells (per EnerCore)				
EnerCore subsystem	Operating voltage range	168.0 - 229.6 VDC (default mode)				
	Max discharge current	70 A (module fuse limited)				
	Max charge current	20 A (electronically limited)				
	Module fuse	300 VDC, 60A, time-delay				
Transfer time (AC to battery mode)		0 ms				
Runtime (8,000 W), default charge		100 minutes				
Runtime (4,000 W), default charge		210 minutes				
Storage & operating environment	General	Indoors, away from direct sunlight, rain, precipitation, condensation and dusty areas				
	Operating temperature range	5 - 40°C				
	Storage temperature range	-10- 40°C				
	Humidity range	0 – 90% (non-condensing)				
Dimensions (H x W x D)		1599 x 600 x 494 mm				
Net weight		223 kg	238 kg	230 kg		
Ventilation		Forced air convection				
Parallel scaling		Up to 3 Ampd Silos		Up to 4 Ampd Silos		
External connectivity		N/A		SNMP, Modbus (optional add- on module)		
Certifications		Designed and tested to UL 9540, UL 1973, UL 1741, CE, IEC and UN standards				
Additional certifications		-		Designed to EMSD ANNEX BSR-BS3-08 specifications		



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AMPD SILO P1	DWG NO:	SILOP1LVPT2-17			
INPUT: 1x220/230/240VAC, 50/60Hz DUTPUT: 1x220/230/240VAC, 50/60Hz SYSTEM ONE LINE DIAGRAM	DRAWN:	BRANDON NG		21/03/2017	REV.
SHEET 1 OF 1	CHECKED:	CLAYTON IP		21/03/2017	



How to reach us

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