Product Introduction | C&I ESS
DESAY Liquid cooling 215kwh C&I ESS

DESAY 德赛电池

Liquid cooling | Easy installation | Flexible capacity expansion

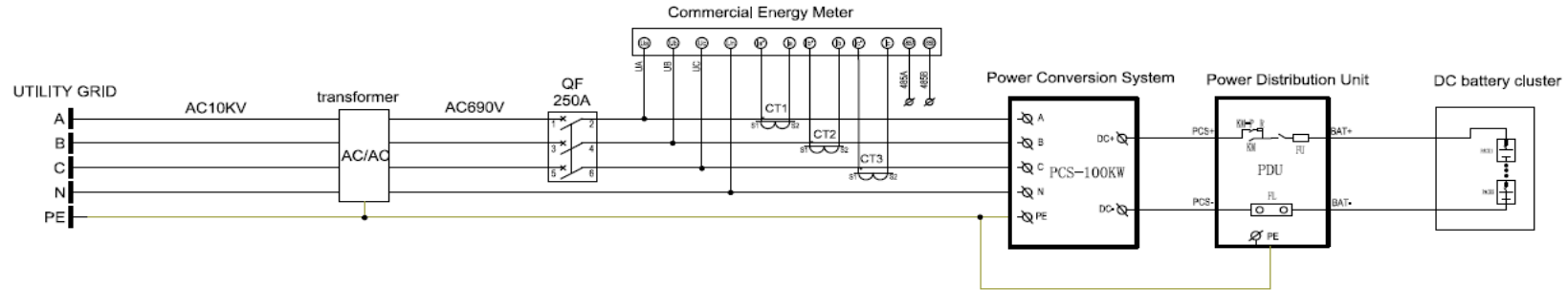| Technical parameters		
AC Parameter		
Nominal capacity/kWh	215	232
Nominal power/kW	100	
AC connection	Three-phase four-wire (three-phase three-wire)	
Reactive power range	Power factor-0.95 ~ +0.95 adjustable	
On-grid parameter		
Rated network voltage/V	380 (AC315/AC290)	
Allowable grid voltage	±15%	
Rated network frequency/Hz	50	
Allowable grid frequency/Hz	47.5 ~ 51.5	
Total current distortion	≤5%	
Power factor	≥0.98 (Rated power)	
Charge and discharge conversion time/ms	≤100	
And off-grid switching time/ms	≤50	
Off-grid parameter		
Rated output voltage/V	Ac380 /AC315/AC290	
On/off grid output voltage deviation/V	AC380 (AC315/AC290)±5%	
Output voltage unbalance degree	≤5%	
Output voltage distortion degree	≤3%	
Rated output frequency/Hz	49.5 ~ 51.5	
System parameter		
System efficiency	Power efficicecy≥97%,Capacity efficiency≥88%	
Noise/dB	<65	
IP level	IP54	
ambient temperature range/℃	-20 ~ +55	
Cooling system	Liquid cooling	
humidity	0 ~ 95%non-condensing	
Dimension(W*D*L)/mm	1400*1300*2200	
Weight/Kg	2800	

Product Application:

DSY-IES-LC100/215 turns the integrated battery system, inverter system, energy management system, fire protection system, power measurement unit and cloud operation and maintenance
platform developed by industry and commerce into an integrated energy storage system, which can be plugged and played and installed easily and quickly.
DSY-IES-LC100/215 ESS is a distributed energy storage system integrating battery system, battery management system, monitoring system, auxiliary system (temperature control, security) and EMS energy management system. It can be widely used in new energy power generation and energy storage power stations, distributed power generation and energy storage power stations, micro-grid energy storage power stations, electric vehicle charging and storage integrated power stations, urban energy storage power stations, industrial and commercial energy storage power stations and other fields, and can achieve important functions such as "tracking power generation plan", "cutting peak and filling valley", "peak regulation and frequency regulation", and "emergency power preservation".

Single Line Diagram

Single Line Diagram showing UTILITY GRID, AC10KV, transformer (AC/AC), AC690V, QF 250A, Commercial Energy Meter, CT1, CT2, CT3, Power Conversion System (PCS-100KW), Power Distribution Unit (PDU), DC battery cluster.

System topology

System topology diagram with Single diagrame.

No.		AH1		Transformer room	QTY	PCS Room			直流电压盒	
Dimension:W*D*L		/				Transformer No.	PBS1-1725K	1	ESS BODY	ESS BODY x 9 RACKS，3354kwh，1123~1497.6V
Name		高压柜	QFT	SCB10-RL-1800kVA					RACK	8PACK，372.736kwh，1123~1497.6V
Description		KYN28-12	1	10kV±2x2.5%/0.69kV	1				pack	PACK：1P52S，46.592kwh
Breaker		12/630-25kA AC250V	1	1800kVA 6% Dy11					Cell	280Ah，3.2V
Current transformer		150/5,300/5 0.5/5P30,25kA/4S	3	AN/AF F级						
Lightning arrester		TBP2-17/45，带放电计数器	3								QTY
Screen		GSNA1-12	2	2000/5 0.6S	3				Breaker	MVS20DA14F2/DC1500V/2000A	1
Locker		DSN	2						FUSE	BS207-9-UJF-2000A1500V 2500A	1
Tester		HD-702	1						SPD	IPBU 40x~1500V PV	1
Current meter		150/5	3							
ZCT		100/5，φ200	1							
电缆型号及截面										
备注										
物料号										
原理图号										

Multi unit installation schema:

Certificates: The pending certification is for: IEC 62619:2022,UN 38.3,IEC 62477-1,VDE 4105

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