



5MWh

Liquid Cooling Battery Cabinet

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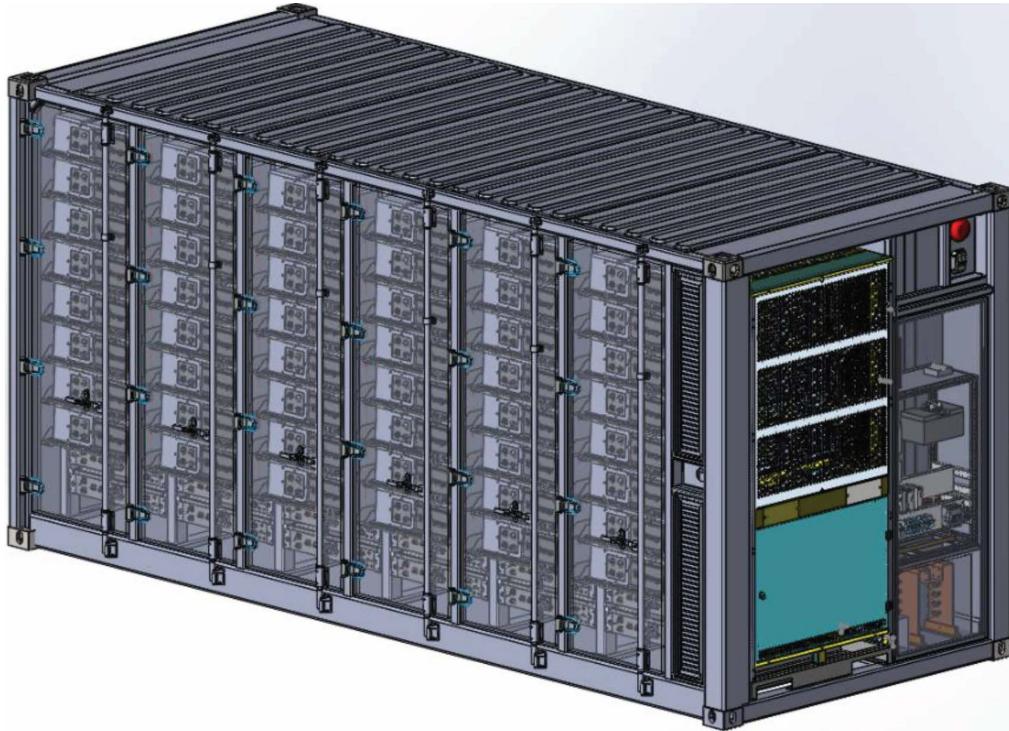
Datasheet

iCube - D 5000



Item		iCube 5015
<b>Cabinet</b>		
Battery Chemistry	LFP	
Nameplate capacity	5015kWh	
Nominal power	2507.5kW (0.5P)	
Nominal voltage (DC)	1331.2V	
Maximum operating voltage range (DC)	1040~1497.6V	
Nominal current	1884A	
Maximum pass-through current	2411A	
Electrical Configuration	1P416S12P (12 racks of 4 Modules each)	
Operating temperature (charging/discharging)	-30~50°C	
Auxiliary power	Power supply range	400V±15%
	Heating rated power consumption	36kVA
	Cooling rated power consumption	35kVA
	Stand-by power consumption	5.8kVA
	Max power consumption	52kVA
Operating Environment	Storage temperature	-30~60°C
	Installation Classification	Outdoor, Stationary, Remote Locations
	Altitude	≤ 2000m
	Seismic (IEEE 693)	High Seismic Design Level
	Pollution Degree	II
Dimensions (WxDxH)	6058x 2438 x 2896 mm 20.0x 8.0x 9.5 ft	
Weight	≤ 42.5T	
IP level	IP55 excl. chiller compartment	
Cooling mode	Liquid cooling, 50% ethylene glycol aqueous solution	
Fire Safety	Fire panel with heat and smoke sensors	
	Fire resistant enclosure	
	Gas sensor and active ventilation system	
	Automatic aerosol-based fire suppression system(Optional)	
Communication protocols	CAN/Modbus TCP	
Coating	C4-M (C5-M, optional)	

Color		RAL 9016
Compliance	Battery Safety	UL 1973, UL 9450, UL 9540A IEC 62477-1, IEC 62619, IEC 62933-5-2, IEC 63056
	Transportation	UN 38.3, UN 3536
	EMC	EN / IEC 61000-6-2, EN / IEC 61000-6-4
	Marking	CE
<b>BIC</b>		
Dimensions (WxDxH)		1760*995*2196 mm
Maximum current		2232A 0.5P @ 2.7V
Maximum voltage		1497.6 VDC @ 3.6V
Busbar		180*10mm <sup>2</sup> (two wires in parallel connection)
Fuse Max. breaking capacity		250kA
Fuse current rating		3000A
<b>Module</b>		
Electrical configuration		1P104S
Dimensions (WxDxH)		2200 x 810 x 245mm
Protection level		IP67
Power connection		Quick Plug
Compliance	Battery Safety	UL 9540A, UL 1973 (rack) IP67, IEC 62619, IEC 63056
	Transportation	UN 38.3, UN 3480
	EMC	EN/IEC 61000-6-2.EN/IEC 61000-6-4
<b>Cell</b>		
Type		Prismatic LFP (lithium iron phosphate) cell
Dimensions (DxWxH)		71.7±0.5mmx 174.7 x 207.4±0.5mm
Weight		5.60±0.3kg
Nominal capacity		314Ah
Nominal charge/discharge power		502W
Nominal voltage		3.2V
Operating voltage range		2.0V~3.65V (t<0°C) 2.5V~3.65V (t>0°C)
Charge operating cell temperature range		0~60°C
Discharge operating cell temperature range		-30~60°C
SOC Operating Range		0~100%
Shipping SOC		25%
Compliance	Battery Safety	IEC 62619, UL 1973, UL 9540A
	Transportation	UN 38.3



Inside layout



DOWELL



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