

iHouse 20ft 500/1000

C&I CONTAINER ALL IN ONE ENERGY STORAGE SYSTEM



DOWELL Smart String Energy Storage Solution

Rack-level Optimization

Each RACK connects to a PCS, and controls charging and discharging independently to avoid bias current affecting the discharge amount.



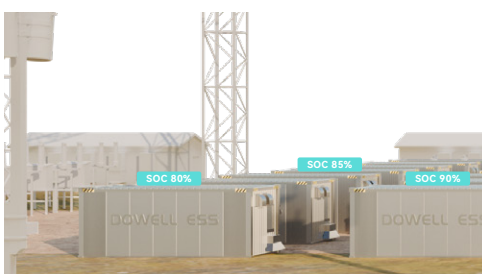
Smart Operation & Maintenance

Two smart operation screens (BMS and EMS) and smart cloud platform, ensuring refined management and visualize operation status.



Automatic SOC calibration

The battery rack-level SOC is automatically calibrated without affecting the normal operation of the energy storage system.



Support Pallet Transport

iHouse 20ft 500/1000 is a complete all-in-one BESS with PCS, battery, BMS, EMS—all pre-installed before delivery.



Product Model**iHouse 20ft 500/1000****DC side**

Cell	Type	LFP
	Rated Voltage	3.2V
	Cell Capacity	280Ah
Pack	Configuration	1P20S
	Rated Voltage	64V
	Voltage Range	56V~73V
	Pack Capacity	17920Wh
	Cooling Method	Air-Cooling
Rack	Rated Voltage	768V
	Voltage Range	672V~876V
	Rack Capacity	215.04kWh
	Cooling Method	Air-Cooling

AC side

Rated Output	525kW
PCS Rated Voltage	AC230V/400V
Voltage Range	-10%~+15%
Rated Power	105kW
Module Qty	5
Frequency	50/60Hz
Power Factor	0.99
Power Factor Range	1 (lead) ~1 (lag)
Overload Capacity	110% continuous, 120%/1min
AC Output Type	3W+PE / 3W+N+PE

System

Operation Temperature Range	-20°C~40°C
Relative Humidity	0~95% (non-condensing)
System Voltage	AC230V/400V
System Rated Capacity	1075kWh
Measurement (L*W*H)	6058* 2438 * 2591 mm
BMS Communication Interface	RS485, Ethernet
BMS Communication Protocol	Modbus RTU, Modbus TCP
Fire Fighting System	3-Level
IP Rate	IP54
Weight of Whole	about 16 tons



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