

PowerVault C&I Solution

VEB Series

Outdoor Battery C&I System





With hybrid inverter, C&I battery system can be flexibly deployed in industrial and commercial parks for industrial and commercial users with significant peak-valley power price gap. Enable to reduce electricity bills, improve electricity quality by peak-load shifting, reducing demand and power consumption, and provide emergency standby power for important loads.

Key Feature

- Modular design, support up to 6 clusters in parallel
- High security, multi-level BMS protection function
- High compatibility, support to match multiple inverter
- Local & remote intelligent monitoring, real-time data storage
- Pre-installed design for convenient transportation and installation, cost-saving.

Certification

- IEC62619
- IEC62477
- CE-EMC EN61000
- IEC63056
- UN38.3
- EN50549
- VDE 0126-1-1
- IEC61727
- VDEN4105-2018,
- G99

Application

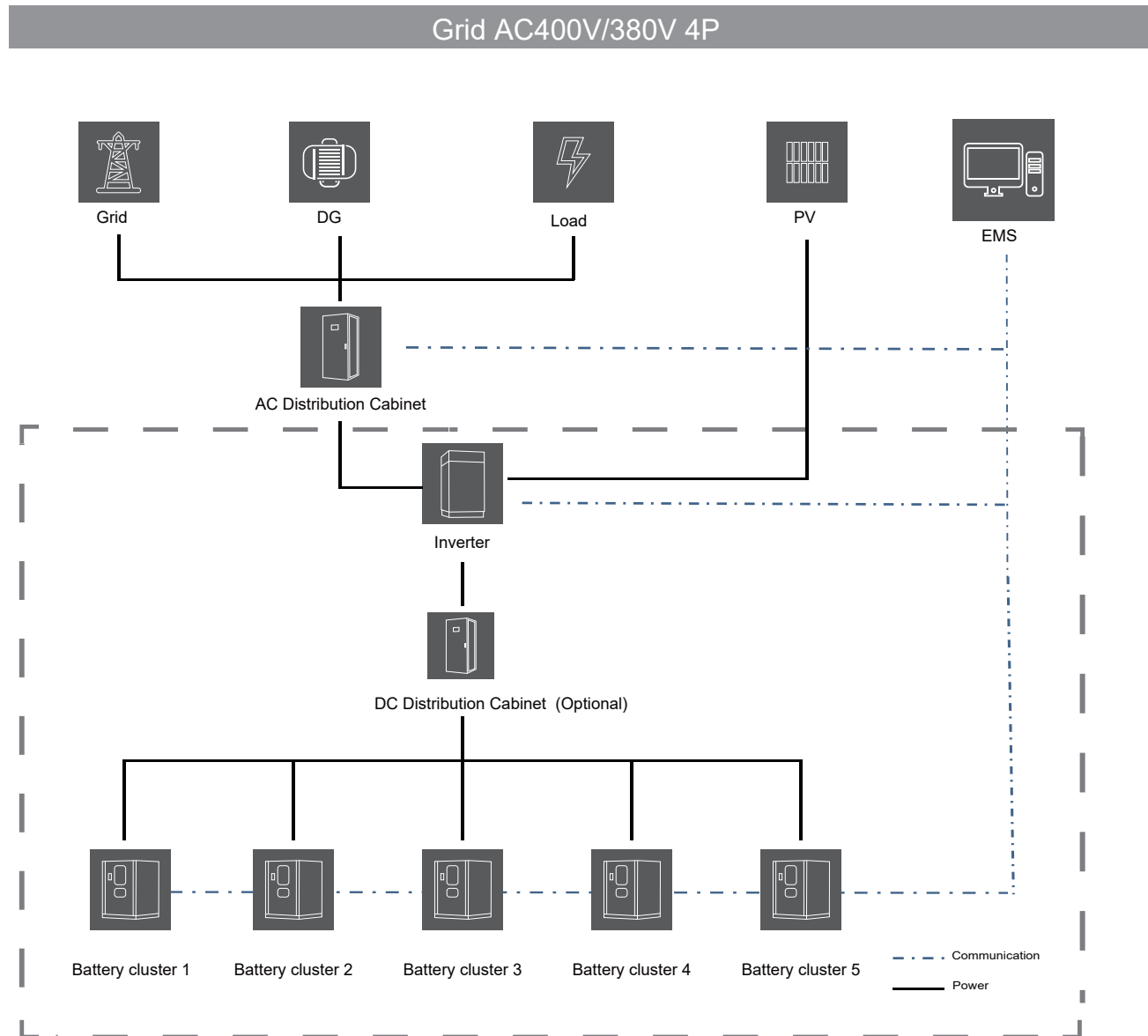
- Emergency Back-up
- Peak Shaving
- PV Self-consumption
- Frequency Regulation
- Peak Regulation



System Composition



System Diagram



Compeate with hybrid inverter:

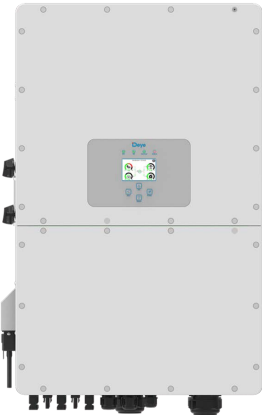
Back up time Power	3h	4h
	50KW	50KW
50KW	VEB 512-144KWh	VEB 704-200KWh

Specification

Item	Deye 50kW Inverter	
AC Parameters		
Max. DC Input Power (W)	65000W	
MPPT Range (V)	150-850V	
Rated DC Input Voltage (V)	600V	
No. of MPP Trackers	4	
Rated AC Output and UPS Power (W)	50000W	
Max. AC Output Power (W)	55000W	
Output Frequency and Voltage (V)	50/60Hz; 3L/N/PE 220/380, 230/400Vac	
Max. Efficiency	97.60%	
Dimensions (W*D*H)	527mm×894mm×294mm	
System Parameters	VEB 512-144KWh-F	VEB 704-200KWh-F
Battery Type	LFP	
Nominal Battery Voltage	512V	704V
Nominal Battery Energy	144kWh	200kWh
Operating Voltage Range	426~560V	586~770V
Recommend Charging Current	140A	
Recommend Discharging Current	140A	
Charging Temp. Range	-20~50℃	
Discharging Temp. Range	-20~50℃	
Anti-corrosion Level	C3 (C4/C5 optional)	
IP Rating	IP54	
Expansion	Up to 5 units in series	
Communication	RS485, CAN, Ethernet, 4G	
Compatible Inverters	Deye/Megarevo/Solis etc.	
Design Certification	UN38.3/CE-EMC/IEC62619/IEC 62477/IEC 63056	
Firefighting	Airosol, Perfluoro(optional)	
Dimension(W*D*H)	1200*1450*2300mm	
Weight	Approx. 2150kg	Approx. 2600kg

Key Components

Battery	Items	
	Battery Module Qty	8 or 11
	Battery Module Specification	64V/280Ah@1P20S
	Nominal CapacityC	280Ah
	Nominal Energy	144kWh or 200kWh
	Rated Voltage	512V or 704V
	Voltage Range	426~560V or 586 ~ 770V
	Charge/Discharge Power Rate	0.5P/0.5P
	Cycle Life	≥6000@80%DOD,25°C
	Working Temperature Range	0°C~55°C
	Cooling	Air Conditioning
	Weight	Appro.1600kg
	IP Rating	IP54

Hybrid Inveter	Items	Parameters
	Max. DC Input Power (W)	65000W
	MPPT Range (V)	150-850V
	Full Load DC Voltage Range (V)	450-850V
	Rated DC Input Voltage (V)	600V
	No.of MPP Trackers	4
	Rated AC Output and UPS Power (W)	50000W
	Max. AC Output Power (W)	55000W
	Peak Power (off grid)	1.5 time of rated power, 10 S
	Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
	Max. Efficiency	97.60%
	IP Rating	IP55
	Noise	<45dB
	Dimension (W*D*H)	527mm×894mm×294mm
	Weight	75kg



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