



AIDC Power Supply Product Series

For GPU Server, High-Density Computing Power Cluster and 800V HVDC Machine Room
Highly Reliable Stand-by Power and Power Supply Solution Provider

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51.2V Intelligent Li-ion Battery System

VA48L-M

Designed for IDC Data Room, 5G Communication, Edge Base Station scenarios



Product pictures are for reference only, subject to the actual product.



**High-quality
Safety
Battery Cell**

Select A-grade Lithium-Fer-Phosphate battery cells, non-flammable by acupuncture, to suppress the risk of thermal runaway from the source, more safety to use.



**Long Cycle
Life**

Cycle life> 6000 times @ 80% DoD, long life, no replacement for the full life cycle.



**Intelligent
BMS
Protection**

Equipped with intelligent battery management system, intelligent monitoring overcharge, overdischarge, short circuit and other abnormalities; Accurate measurement of SOC/SOH and real-time monitoring battery health.



**Flexible
Capacity
Expansion for
Multi-machine
Parallel**

Up to 15 devices is available to be stacked in parallel, and the energy storage capacity is available to be smoothly expanded on demand to suit the needs of various scenarios.

Product Model

VA48L-M

Electrochemical System	LFP		
Rated Voltage (Vdc)	51.2	51.2	51.2
Cell Rated Capacity (Ah)	100	200	300
Battery Module Type	51.2V/100Ah	51.2V/200Ah	51.2V/300Ah
Rated Energy (kWh)	5.12	10.24	15.36
Voltage Range (Vdc)	43.2V-57.6V		
Charging Current	50A	100A	150A
Discharge Current	100A	100A	200A
Depth of Discharge (DoD)	80%		
Cycle Life	≥6000 times		
Level of Protection	IP20		
Max. Ambient Temperature	Charging: 0°C ~55°C, Discharge: -10°C~55°C		
Parallel Quantity	Max. 15 parallel		
Communication Interface	RS232/CAN/RS485(WiFi)		
Display	LCD display		
L*W*H (mm)	440*480*178	790*480*178	790*480*200
Weight (kg)	44	84	110
Certification	UN38.3, MSDS, CE, RoHS, UL1973		

Sidecar High Power Battery Cabinet

VA840Y1000K60S

Suitable for High-Density Cabinets, Regional Centralized Operation and Maintenance, 800 VDC Architecture Retrofit



Distributed Deployment Rapid Response

Deploy close to the load and balances rapid near-source response and regional centralized operation & maintenance to shorten the standby power supply link.

Resource Pooling Dynamic Scheduling

Support the "one-to-many" architecture, realize capacity monitoring and dynamic allocation in combination with the cloud platform to improve energy utilization.

Strong Compatibility Flexible Expansion

Compatible with UPS, $\pm 400V$ DC, 800V DC and other architectures, suitable for projects retrofitting and on-demand capacity expansion.

Release Rack Space Increase Computing Power Density

Move the main power supply unit out of the IT rack and optimize the wiring and space utilization to improve the deployment capability of single rack.

Product Model

VA840Y1000K60S

Rated Voltage (Vdc)	820
Operating Voltage Range (Vdc)	607.5~933.5
Capacity (Ah)	20.8Ah
Series-Parallel	2P45S*5*2
Total Battery Energy	17kWh
Available Battery Energy	13.6kWh
Charging	Charging: 60A, Max:200A@10S
Discharge	Discharge: 416A, Max:1250A@30S
Depth of Discharge	80%(DoD)
Operating Temperature Range (°C)	Charging: -10~+55; Discharge: -20~+55
Relative Humidity	5~95%
Max. Operation Altitude (m)	2000
Communication Method	CAN, RS485
Weight (kg)	925 (without immersion solution)
Unit (W * H * D mm)	600*1200*1000
Level of Protection	IP20
Storage Temperature (°C)	-20 to +45 (≤ 1 month); 0~ +35 (≤ 1 year)
Installation Method	Rack type
Certification	UN38.3

High-Power Battery Cabinet Series

VA512F300K07M

VA512F300K10M

VA512F300K15M

Designed for AI Intelligent Computing Centers, Financial Institutions, Rail Transit Systems and Ultra-High-Density Data Center scenarios

 Ultra-high Power Density

Single cabinet power is up to 600kW.

 Long-life High-Rate Battery

Supports deep charge and discharge cycles with cycle life> 1500 times.

 Large Rate Discharge Capacity

≥ 6C instantaneous magnification, the 6-15 minutes standby power available.

 Intelligent BMS Management System

Built-in advanced BMS system architecture to support full-link high-precision monitoring.



Product Model	VA512F300K07M	VA512F300K10M	VA512F300K15M
Rated Voltage (Vdc)	512		
Voltage Range (Vdc)	400-576		
Rated Capacity (Ah)	80	130	200
Rated Energy (kWh)	40.9	66.5	102.4
Standby Duration (min)	≥7min	≥10min	≥15min
Recommended Ambient Temperature	Charging: 0°C ~55°C, Discharge: -10°C ~55°C		
Heat Dissipation Mode	Forced air cooling		
Charging Current	80A	130A	200A
Max. Power	300kW@7min	300kW@10min	300kW@15min
Parallel Quantity	Supports up to 16 cabinets in parallel		
Storage Environment	Temperature: -10°C to +45°C, humidity: ≤90%RH		
Altitude	> 2000m de-rated usage		
Level of Protection	IP20		
Communication Protocol	Modbus,TCP/RTU,CAN 2.0B		
Size (mm)	600*1000*2000		
Weight (kg)	650	725	1025

Disclaimer: This datasheet is prepared based on current data. Product data and specifications are for reference only. We reserve the right to revise without notice. Zhejiang Vastech Energy Co., Ltd. reserves all the right of the final explanation for all contents herein.

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