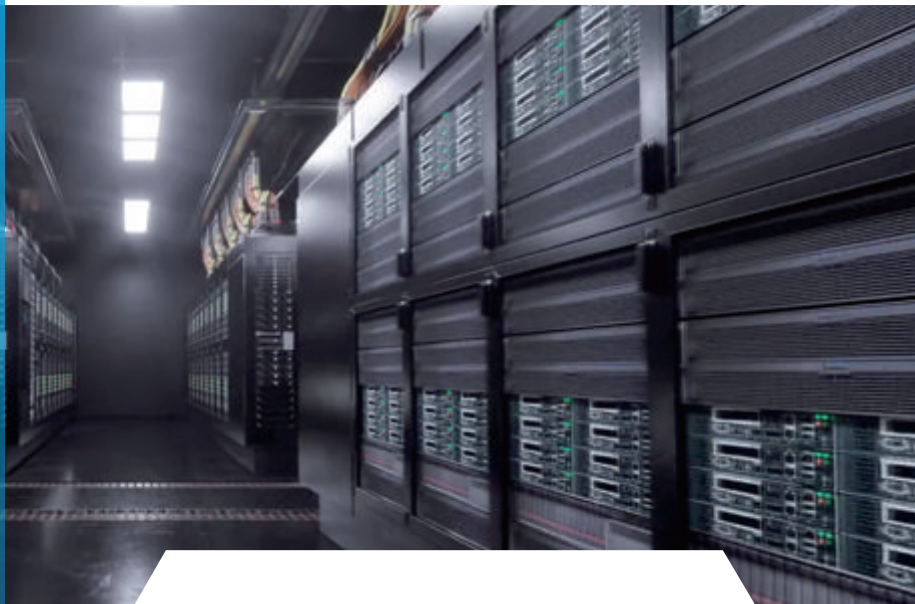




ACEPOWER

UPS ESS EnCore Series

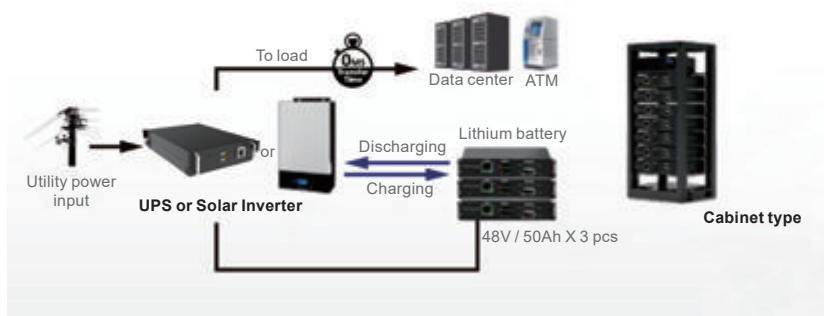
48V Li-ion Battery



Product Features

- + Low voltage in 48Vdc. 50Ah or 100Ah
- + Life cycle: >3000
- + Long design life
- + Front / Rear Installation optional
- + Communication protocols: RS485
- + Easy capacity extension by paralleled
- + LiFeO4 technology, more safe and stable
- + Separate control and protection for charge and discharge processes
- + Real-time detection of the voltage, current, temperature, SOH, and SOC
- + Maintenance friendly
- + Support for parallel connection

■ Operation with Lithium Battery



Application Scenarios

- + Traditional telecom base stations: square cabins, cabinets, and tower, etc.
- + 5G telecom base stations
- + 48V backup energy storage systems
- + 1-6KW UPS
- + Data Center
- + Solar Inverter
- + Home energy storage

■ Comparison between LiFePO4 Battery and VRLA Battery

Battery Type	Battery Qty	Volume(cbm)	Weight(kgs)	Cycles	Backup time at 6KW load
LiFePO4 Battery 48V100AH	1pc	0.034	60kgs	3000	40 minutes
VRLA Battery 48V100AH	12V100AH x 4pcs	0.048	120kgs	300	24 minutes



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EnCore Series

48V Li-ion Battery

Specifications

Model	AP4850	AP48100
Rated Voltage [V]	48	48
Rated Capacity [Ah]	50	100
Total Energy [Wh]	2400	4800
Charge Voltage [V]	53.2	53.2
Max. Charge Current [A]	25	50
EOD Voltage [V]	42	42
Max. Discharge Power [W]	3200	6400
Discharge Time [min]	30	30
Peak Discharge Power [W, -3s]	3840	7680
Dimensions [W*D*H, mm]	437*530*87	437*850*88(2U)/437*530*131 (3U)
Weight [kg]	28	51
Breaker	100A	200A
Max. Number of Packs (In Parallel)	8	
IP Grade	IP20	
Storage Temperature [°C]	(-20 to +55)	
Working Temperature [°C]	Charge: 0 to 45	
Operating Temperature [°C]	Discharge: -20 to +60	
Relative Humidity	0 ~ 95%RH (non-condensing)	
Communication Port	RS485/CAN 2.0 (RS485 by default)	

Protection Over voltage protection, low voltage protection, high temperature protection, low temperature protection, and short circuit protection

Certification UL1973, IEC62619, UL60730-1, UN38.3, ISTA3E, FCC, ROHS

The datasheet is subject to change without prior notification.

Performance Curve

