

**MegaValley2 500kW-1MWh**



A+ Grade Lithium  
Iron Phosphate Cells



20-year Design Lifespan

Version:V1.0

## Liquid-Cooled Battery All-in-One C&I BESS



### Features and Advantages

#### Safety Technology

- A+grade lithium iron phosphate
- Multi-level fuse design with sequential protection
- Built-in package-level and container-level gas aerosol fire extinguishing system

#### Easy to Install and Use

- Highly integrated for ease of transportation, installation and deployment
- Modular design with flexible system capacity configuration

#### More Reliable

- The system is rigorously designed and tested to operate stably under various conditions
- Equipped with protections against overcharge over-discharge, and over-temperature to prevent accidents

#### Energy Management System

- Emergency power supply
- Peak shaving
- Demand mitigation
- Self-consumption
- Micro-grids
- Price arbitrage

# Technical Parameters

Model	MegaValley2 500kW-1MWh
Battery Data	
Nominal Energy	1044kWh
Nominal Voltage	832V
Battery Model	SC52T05-314
Battery Chemistry	Lithium Iron Phosphate(LiFePO4)
Cycle Life	≥8000 cycles(@25°C, 0.5P/0.5P)
Cell Specification	3.2V 314Ah
Battery Pack Energy	52.2kWh
String Configuration	1P260S
Number of Racks	4
Operating Voltage	728 - 949V
Rated Charging Power	0.5P
Rated Discharging Power	0.5P
Safety	
Fire Suppression System	Gas aerosol, Water sprinkler system
PCS Data	
Rated Power	500kW
Please refer to the PCS section for more details	
General	
Dimensions(W x D x H)	6058 x 2438 x 2896 mm
Weight	≤17000kg
IP Rating	IP54
Cooling Method	Liquid cooling(Battery)
Operating Temperature	-25°C - +55°C
Storage Temperature	-30°C - +60°C
Relative Humidity	15%~90%(Non-condensing)
Operating Altitude	≤3000m
Communication	LAN/CAN/RS485
Compliance	IEC/EN 62619, IEC/EN 61000, UN3536, UN38.3, MSDS

\* The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified, the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.

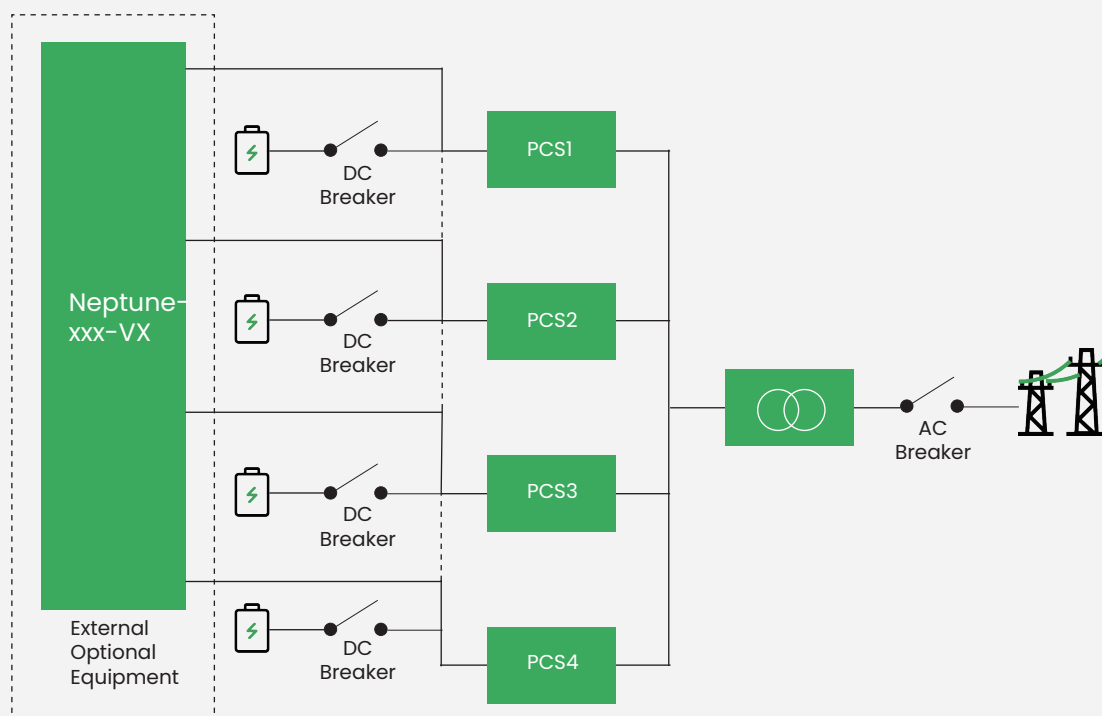
\* The specifications are subject to change without prior notice.

# Power Conversion System



## Features

- DC-coupled with PV and battery
- Multiple battery inputs to solve the battery circulation
- Built-in isolation transformer
- Modular design for easy maintenance



# PCS Technical Parameters

Model	LOL-500K-PA1
DC(PV input)	
DC Voltage range	600-1000V
Max Num.of Battery Input	4
Max charge/discharge current	216A*4
Max charge/discharge power	125KW*4
AC(on-grid)	
Max.input apparent power	500kVA
Rated output apparent power	500kVA
Rated voltage	400V
Voltage range	300-460V
Rated frequency	50/60Hz
Frequency range	45-55Hz/55-65Hz
Rated output current	720A
Max.AC input current	720A
PF	>0.99(-0.8-0.8)
THDi	<3%@rated power
AC connection	3W+N+PE
AC(off-grid)	
Rated output power	500kw(@Resistive load)
Rated output voltage	400V
Rated output current	720A
Rated frequency	50/60HZ
THDU	<3%(@lineerload)
Overload capability	120%-1min
System Data	
Build-in fransformer	Optional
IP level	IP20
Cooling method	intelligent air cooling
Operating temperature range	-25-60°C(45-60°C derating, derating factor 5%/°C)
Storage temperature range	-25-70°C(no condensation)
Relative humidity	0-95%(no condensation)
Noise	<75dB(A)@1m
Maximum operating altitude	4000m(derating above 3000m,derating factor 1%/100m)
AC lightning protection	Type II
BMS communication	RS485/CAN
Meter communication	RS485
Remote communication	WLAN/4G/Ethernet
Display	LED+LCD+APP
Dimensions(W*D*H)	1200 x 1000 x 2060 mm
Weight	2100kg
Certificate	IEC62109-1, IEC62109-2, IEC62477-1, IFC61000-6-2, IFC 61000-6-4, NRS 097-2-1

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