



ABOUT PRODUCT

APS- Lithium Solar/ Telco Battery Packs offer safe lithium phosphate energy storage solutions in 19" rack mount configurations or panel-mount type configurations. The APS- Lithium Solar/ Telco battery range is suitable for a wide variety of applications, including Solar storage, Wind Storage and Telco applications. These lithium-ion batteries are designed to fit existing Solar, Wind and Telco installations where traditional lead-acid batteries are still used.

PRODUCT PERFORMANCE

APS Lithium Ion Phosphate Batteries (also known as Lithium Iron Phosphate Batteries) are an extremely light weight battery designed for deep-cycle (cyclic) applications and are a completely dry battery making them spill-proof and leak-proof. They can sit for long periods without losing charge and can also be charged extremely quickly without damaging the battery. APS- Nano offering twice the run-time and less than half the weight of lead acid batteries.

KEY FEATURES

Cells and Battery Voltage Detection:

Protection and alarming for over-charge, over-discharge

Cells and Battery Ambient Temperature Detection:

Protection and alarming for high temperature and low temperature

Battery Charge and Discharge Current Detection:

Protection and alarming for charge current and discharge current, also for short-circuit protection

Battery SOC and Cycles Detection:

Indicates the real-time SOC and re-cycle times

With 6 LED indicators:

Indicates the SOC, operation mode, alarming and protection status of the battery pack

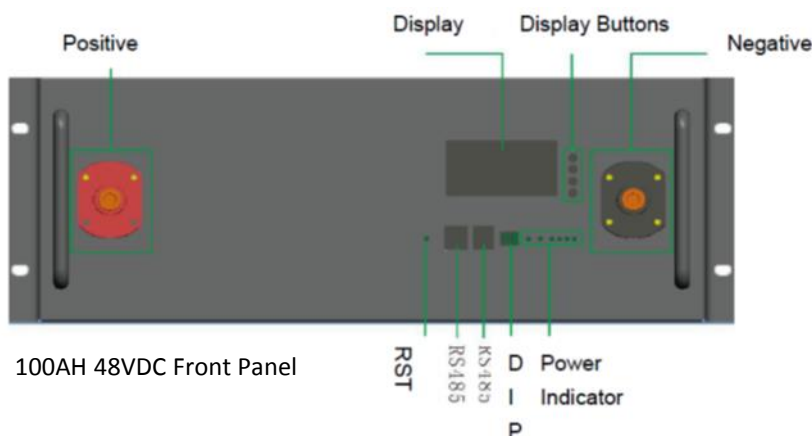
RS232 and RS485 Communication Interface:

Battery Data Monitoring, Operation Controlling and Parameter Setting through the remote interface

History Data Logging and reporting

Battery Parameter Setting:

Applicable to cells and battery packs for over discharge, over charge, over current, short circuit, high temperature, low temperature, number of serials, battery capacity



100AH 48VDC Front Panel

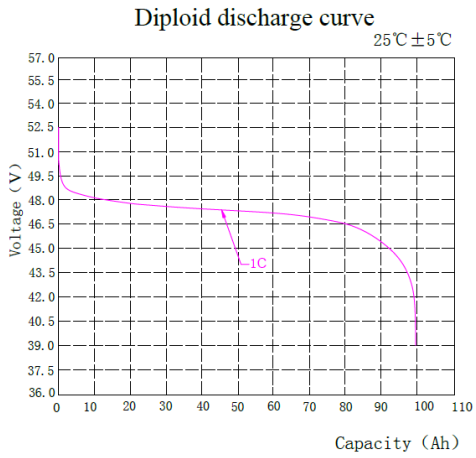
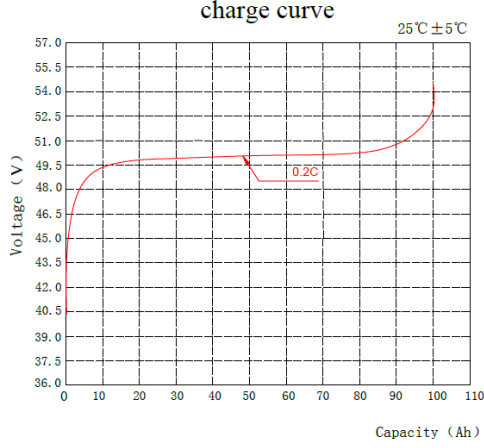
APS- Lithium Solar/ Telco Systems
19" rack mount and panel mount with comms
 100AH~ 300AH Capacity (24VDC or 48VDC)



TECHNICAL SPECIFICATIONS

Electrical Characteristics	
Nominla voltage	24VDC / 48VDC
Nominal Capacity (@25deg)	100Ah~300Ah
DC Internal Resistance	≤40mΩ~≤75mΩ
Expected Cycle Life	More than 4000 cycles with 1C charge and discharge rate at 25deg
Operation Conditions	
Charge Method	CC-CV
Max. Charge Voltage	29.2VDC / 54.75VDC
Continuous Charge Current	5A~100A max.
Charge Temperature	0deg~45deg
Continous Discharge Current	5A~100A max.
Peak Instant Discharge Current (10 secs)	50A~200A
Discharge Cut off voltage	20.0V / 37.5V
Discharge Temperature	-20deg~65deg
Storage Temperature	-20deg~65deg
Self Discharge (Stored at 50% SOC)	≤3% per month

100AH 48VDC Charge/ Discharge Curves



100AH 48VDC Telco



200AH 48VDC



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