

Normal Specification	ART-LiFePO4-120STD	ART-LiFePO4-100GLD	ART-LiFePO4-150GLD	ART-LiFePO4-200GLD
Nominal Voltage	12.8V			
Nominal Capacity	120Ah	100Ah	150Ah	200Ah
Cycle Life (DOD – 80% under controlled)	≥ 3500 Cycles			
Standard Charge Specification (Lithium profile charger required)				
Battery Charge Temperature	0- 55°C			
Normal Charge Voltage CV/CC*	14.20- 14.60V			
Standby (Float) Voltage	13.50- 13.80V			
Maximum Charge Current	120A @ 25°C	100A @ 25°C	150A @ 25°C	200A @ 25°C
Recommended Charge Current (For Maximum Life, Charge in the lower amperage range)	20~60A	20~50A	30~75A	40~100A
Standard Discharge Specification				
Battery Discharge Temperature	-20- 60°C			
Battery Output Voltage Range	10.00- 14.60V			
Maximum Discharge Current	120A @ 25°C ±5°C	200A @ 25°C ±5°C	200A @ 25°C ±5°C	200A @ 25°C ±5°C
Pulse Discharge Current	180A±10A 0.5-1.5S	340A±10A 1-3S		
Discharge Cut-off Voltage	10V±0.5V			
Circuit Protection	The battery is supplied with a LiFePO4 Battery Management System BMS that can monitor and optimize each single prismatic cell during charge & discharge, to protect the battery pack from overcharge, over			
Over-Charge Protection				
Over-charge Protection Per Cell	3.75±0.05 V	3.65±0.05 V	3.65±0.05 V	3.65±0.05 V
Over-charge Release Per Cell	3.55±0.05 V	3.45±0.05 V	3.45±0.05 V	3.45±0.05 V
Over-charge Release Method	Discharge below release voltage			
Over-Discharge Protection				
Over-discharge Protection Per Cell	2.20±0.05 V	2.50±0.05 V	2.50±0.05 V	2.50±0.05 V
Over-discharge Release Per Cell	2.70±0.10V	2.70±0.10V	2.70±0.10V	2.70±0.10V
Over-discharge Release Method	Apply Charge/Voltage ≥12.8V			
Battery Manual Reset Button	No	No		
Over Current Protection				
Discharge Over Current	625A	440A	440A	440A
Protection Reset Time	220ms	320mS	320mS	320mS
Over Current Release Method	Disconnect Load			
Over Temperature Protection				
Battery Discharge Over Temperature	70°C	75°C	75°C	75°C
Battery Discharge Over Temperature Protection release	55°C	65°C	65°C	65°C
Battery Charge Over Temperature	50°C	60°C	60°C	60°C
Battery Charge Over Temperature Protection release	45°C	55°C	55°C	55°C
Short Circuit Protection	2500A@250uS	1560A@400mS	1560@400mS	1560@400mS
Balance function				
battery balance	at charging status, when one cell's voltage reaches 3.4V, balance triggered. balance current 50mA			
Dimensions				
Length	329mm	355mm	398mm	483mm
Width	172mm	175mm	175mm	170mm
Height	214mm	190mm	190mm	240mm
Weight	Approx 11.5 Kg	Approx 10.5 Kg	Approx 16Kg	Approx 21 Kg
Storage Information				
Temperature & Humidity Range	0 °C to 45 °C (32F to 113F) @60±25% Relative Humidity			
Self-discharge Rate	≤ 3% Per Month			