

## Lithium Iron Phosphate (LiFePO4) Batterv 48V 100AH

## **Features of LiFePO4 Battery**

- Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- **Higher Power**: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- Wider Temperature Range: -20 C~60 C.
- Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- Increased Flexibility: Modular design enables deployment of up to four batteries in series and max ten batteries in parallel.



## **Specification of battery pack**

	Nominal Voltage	51.2V
	Nominal Capacity	100Ah
	Energy	5120Wh
Electrical	Internal Resistance	$\leq 200 \mathrm{m}\Omega$
Characteristics	Cycle Life	>2000 cycles @1C 100%DOD; >3000 cycles @1C 80%DOD;
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
	Charge Voltage	57.6±0.2V
	Charge Mode	CC/CV
Standard Charge	Recomm.Charge Current	20A
	Max. Charge Current	100A
	Continuous Current	100A
Standard Discharge	Max. Pulse Current	500A
	Discharge Cut-off Voltage	40V
	Charge Temperature	0 $^\circ C$ to 45 $^\circ C$ (32F to 113F) @60 $\pm$ 25% Relative Humidity
Environmental	Discharge Temperature	-20 $^\circ \!\!\! C$ to 60 $^\circ \!\!\! C$ (-4F to 140F) @60 $\pm$ 25% Relative Humidity
	Storage Temperature	0 $^\circ C$ to 40 $^\circ C$ (32F to 104F) @60 $\pm$ 25% Relative Humidity
	Plastic Case	ABS+PC UL V-0 flame resistant
	Dimensions (in./mm.)	L520*W267*H220mm
	Weight (lbs./kg.)	42kg
Mechanical	Terminal	M8
	Protocol (optional)	Bluetooth + RS232

Beulakerweg 169b NL-8355 AG Giethoorn The Netherlands Phone +31 (0) 521 36 1099 Fax +31 (0) 521 36 1093 Email: info@arka.nl Http://www.arka.nl IBAN: NL86 RABO 0361 2965 41 BIC: RABONL2U Chamber of Commerce: 05054247 VAT: NL.8030.12.780.B01