STRONG ENERGY

Three Phase Hybrid All-in-one ESS

ALFRED (9.6kWh~33.6kWh)



Features

Excellent Power Performance

- 50A Charging / Discharging Current
- Scalable between 9.6kWh ~ 33.6kWh
- High Voltage Battery with high efficiency upto 92%

>10000 CYCLES

Long cycle life with 10000 cycles @ 0.2C discharge to 95% DOD with EOL >65%

Innovative Batteries

- Small size modularized battery design
- Wire-free design for easiest installation
- Flexible battery capacity as per need

Environmental Nice

- IP65 design for outdoor installation
- RedDot Awards desigh nice for home decoration aesthetics

High Reliability

- Reliable Lithium Ion battery adopted
- Comprehensivice electrical protections
- Fire suppresion built in battery modules
- 10 Year Warranty

ALFRED High Voltage Battery

PRODUCT DATASHEET (9.6~33.6kWh)

	PARAMETERS	DESCRIPTION
Battery Module	Model of Battery Module	CR10ST-2400Wh
	Battery Type	LFP (Lithium-ion) 50Ah
	Battery Module Capacity	2.4 kWh
	Module Operating Voltage Range	43.5 ~ 54.75Vdc
	Max. Charge/Discharge Current	50A / 50A
	Max. Module Charge/Discharge Power	2,400W / 2,400W
	Module Dimension	780 x 140 x 240mm
	Module Weight	25 kg
System Parameters	System Model	CRJxST-9600~33600Wh
	Battery Scalability	4 ~ 14
	System Energy	9.6 ~ 33.6 kWh
	System Efficiency	92%
	BMS Communication	RS485 / CAN
	Protection Category	Class I
	Protections	Overvoltage Protection, Overcurrent Protection, Over Temperature Protection, Short-circuit Protection
	Cooling Method	Natural Cooling
	Ingress Protection	IP65
	Operating Temperature	-10℃ ~ 50℃ (>45℃ derating)
	Operating Humidity	5% ~ 95%
	Storage Temperature	-20℃ ~ 45℃
	Max. Operating Altitude	4000m (>2000m derating)
	Certifications	UN38.3, MSDS, IEC62619, VDE-2150, EMC, RoHs