Stackable Supercapacitor

Powered by FoR-Energy
supports the entire power system from power generation to transmission, transformation,
distribution as well as customers

With a new scalable graphene derivative, we created hybrid supercapacitors that can store comparable energy to batteries while also offering superior rapid charging capabilities.

Grid Services including demand response, peak shaving, load leveling,

Solar and wind farms intermittency and curtailment management

Charge and discharge stage:

- Fast charging and discharging from 0.3 to 10C, lithium batteries up to 0.5C and up to 2C for more expensive versions.
- DOC 100%, DOD 100% (95%, BMS related) without reducing life expectancy <> Lithium batteries up to 80%.

Life expectancy:

- Over 32,000 cycles (50,000 and more possible) <> For lithium batteries 6,000 cycles (up to 10,000 possible in more expensive versions).

Fire protection:

- No fire risk. The graphene in the supercapacitor battery removes the oxygen in the event of a fire and thus prevents the lithium from burning.

PERFORMANCE SPECIFICATIONS

Total Energy	6.14Kwh/120Ah
Usage Energy	5.83Kwh
Nominal Voltage	51.2V
Charging current	100A
Discharging current	100A
Cycle life	20000 times
Temp range/Discharging	-30~55℃
Temp range/Charging	0~55℃
Storage humidity	5~95%
Communication port	CAN
WIFI	Yes
Dimension	730*550*133mm
Weight	Weight

Optional Capacity

Model	Configuration	Nominal voltage	Capacity
SM-12	1 Secondary module+ 1 Main module	102.4V	12Kwh
SM-18	2 Secondary modules+ 1 Main module	153.6V	18Kwh
SM-24	3 Secondary modules+ 1 Main module	204.8V	24Kwh
SM-30	4 Secondary modules+ 1 Main module	256.0V	30Kwh
SM-36	5 Secondary modules+ 1 Main module	307.2V	36Kwh
SM-42	6 Secondary modules+ 1 Main module	358.4V	42Kwh
SM-48	7 Secondary modules+ 1 Main module	409.6V	48Kwh