

Round Cell Protectors



Spare Energy

Safely power anything.



Supported cell chemistries	NMC, LiFePO ₄ , NCA
Supported cell geometries	18650, 21700
Nominal voltage	3.4, 3.6, 3.7 V
Overtoltage ranges	3.8 ... 4.5 V
Undervoltage ranges	2.3 ... 2.8 V
Charge overcurrent ranges	4...40 A
Discharge overcurrent ranges	2...30 A
Detection delay	5...7 ms
Operating temperature	-20 ... 80 C
Operating humidity	5 ... 95 (NC) % RH
Ingress protection	45
Maximum pack voltage	60 V
Maximum pack current	80 A

Functional Description

The Spare Energy Round Cell Protector family protects round cells in various geometries of various chemistries from unsafe operating conditions. In addition to offering protection from electrical and mechanical wear which can lead to cell failure, the protectors measure a variety of important parameters during operation which can be used to calculate important metrics about their current state. The Round Cell Protectors are reusable and can be attached to many cells throughout their lifetime, with mechanisms in place to enable detailed cradle-to-cradle tracking.

Typical applications

- Home energy storage
- Base-load vehicle charging
- Low peak power appliances
- Back-up generation
- Industrial peak shaving

Order Codes

RCP12_XX_YY_ZZ

Field	Selection	Code
XX	NMC	01
XX	LiFeO ₄	02
XX	NCA	03
YY	18650	18
YY	21700	21
ZZ	Stackable	ST
ZZ	Non-stacked	NS