

centiel  
*continuous power availability*



Modular Decentralized  
Lithium-ion Batteries  
Maximized Availability



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## Modular Decentralized Lithium-Ion Batteries

Centiel's Modular Decentralized Lithium-Ion Batteries technology was designed to bring the highest availability solution in power protection.

In combination with CumulusPower™ (the Distributed Active-redundant Modular UPS technology), Centiel provides the complete system solution to meet the growing demand of protection for power critical applications.

### Higher Availability

With its decentralized architecture, hot-swappable battery modules, lightweight and compact size, Centiel's modular Lithium-ion Batteries technology achieves the highest levels of Availability demanded by the most critical power protection applications.

### Benefits of Lithium-ion

Higher power density

6x lower than VRLA

Longer lifetime

2 to 3x of VRLA

Battery Management System

24/7 monitoring of state of health and charge

Minimized weight

3x lower than VRLA

Reduced Cooling costs

Higher temperatures without reducing lifetime

Faster re-charge time

More discharge cycles

2x more than VRLA

### Decentralized

With an independent battery per each UPS module Centiel Lithium-Ion modular technology eliminates the single point of failure that a centralized battery represents.

24/7 Health Monitoring



# Modular Decentralized Lithium-Ion Batteries

## Hot-Swappable

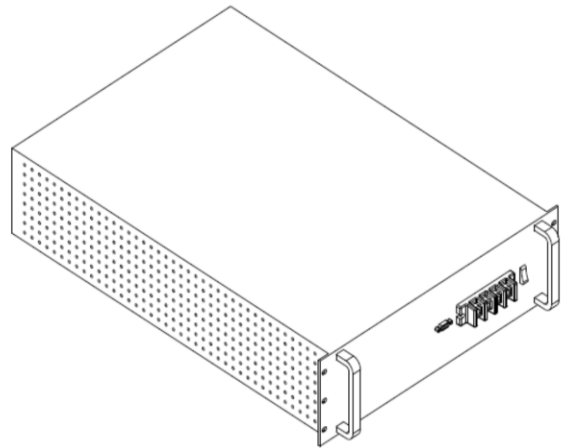
Lightweight battery modules can be easily swapped-out any time for maintenance, repair without affecting the critical power protection application.

## Flexibility of Design

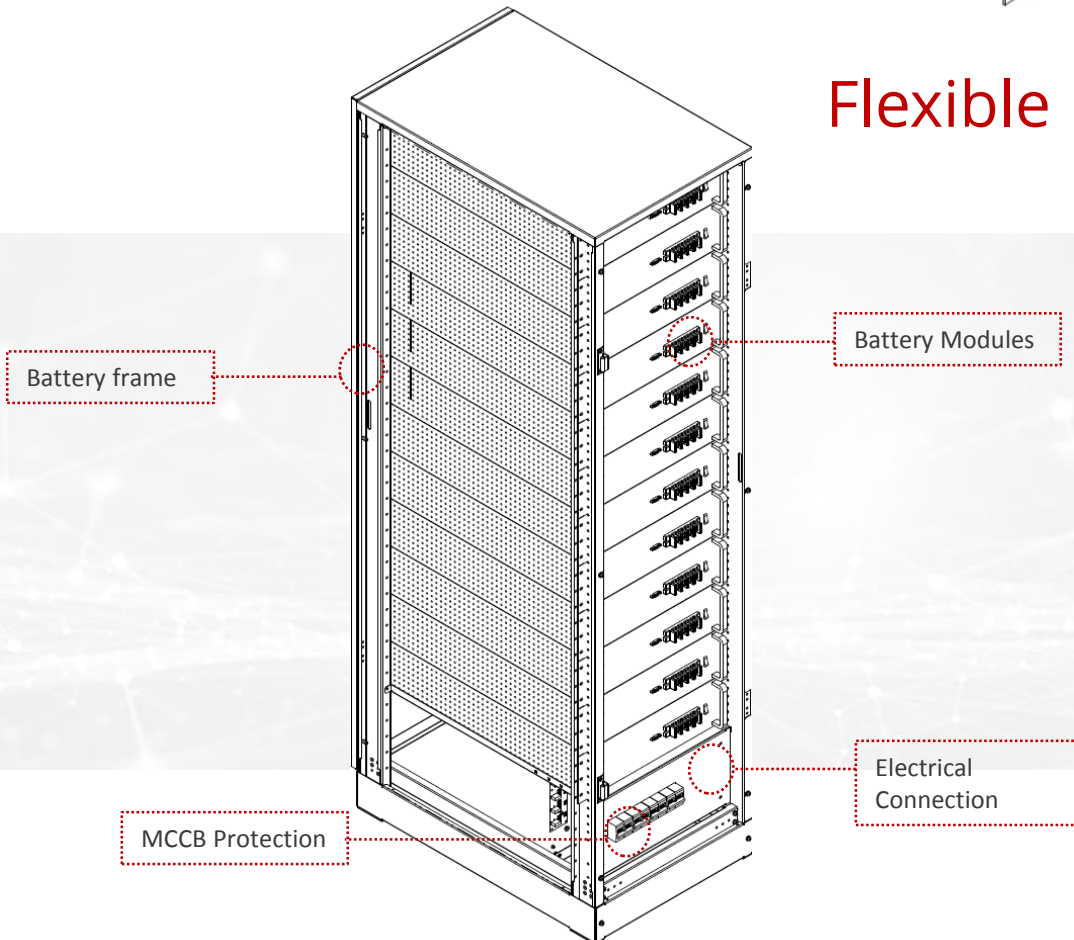
The Lithium-Ion battery modules can be plugged in a variety of frames, allowing the application designer to adapt to the specific requirements of the system.

UPS Module	Battery Module/Autonomy*		
	BM-10	BM-22	BM-50
IM10 [10kW]	20	45	113
IM20 [20kW]	10	22	60
IM25 [25kW]	N/A	18	45
IM50 [50kW]	N/A	9	22
IM60 [60kW]	N/A	N/A	18

\*Autonomies calculated @100% load and Output P.F. 1



**Flexible** Lightweight Battery Modules





# Technical Datasheet

## Lithium-Ion Modules

	BM-10	BM-22	BM-50
Battery chemistry	Lithium-ion		
Nominal Energy [kWh]	2	4.4	10
Capacity [Ah]	10	22	50
Maximum Charging Current [A]	10	20	40
Maximum Discharging Current [A]	28	50	100
Electrical Protection	Fuse and circuit breaker		
Weight [kg]	22	35	41
Dimensions [L x W x H]mm	640 x 440 x 3U	640 x 440 x 3U	640 x 440 x 6U
Certifications	CE		
Warranty	3 years (standard). Possibility to extend up to 10 years		

## Lithium-Ion Frames

Lightweight battery modules can be easily swapped-out any time for maintenance, repair without affecting the critical power protection application.

	CAB-LB206-A1	CAB-LB210-A0	CAB-LB510-A0
Battery module type	BM10/BM22	BM10/BM22	BM50
Max number of battery modules	6/6	10/10	5
Battery cabling	Included		
Electrical Protection	Fuse and circuit breaker into the battery modules		
Weight [kg]	107	148	148
Dimensions [W x H x D]mm	510x1'315x 815	510x1'980x 815	510x1'980x 815
Certifications	CE		
Communication	RS485, TCP/IP, Dry Contacts		
Warranty	3 years (standard). Possibility to extend up to 10 years		

The information in this document is subject to change without notice and should not be construed as a commitment by Centiel S.A. TDS\_Rev2.4.10/02/18

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