Update | Save as | Delete

Cell Name PRIMA Cell - FCL

Version Version 3 – 01.10.25

- Sheet Design
- Stack Configuration
- Packaging
- Case | Tabs
- Add. Foils | Fixing Tape

Calculations

- Report
- BoM
- Export - CSV

Sheet Dimensions		Cathode	Anode	Separator
Height (y)	[mm]	375.5	375.5	386
Width (x)	[mm]	79.0	84	86
Area	[cm²]	298.4	305.5	316.2

Offsets to Cathode				
Height (y)	[mm]		1.0	2.85
Height (x)	[mm]		1.0	2.0

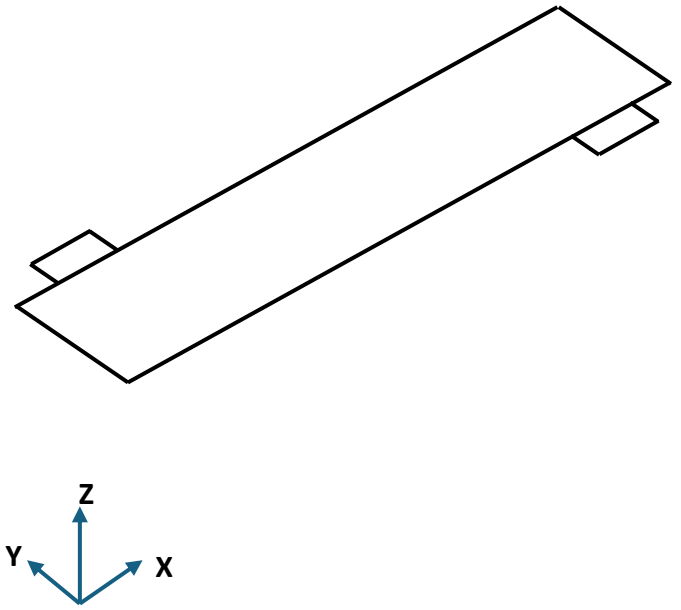
Flag Positions

Opposite Sides	☑		
Same Sides	☐		
Height (y)		12	12
Width (x)		64	64
Offset (x)		8-5	8-5

Update Stack Dimensions	☑	
Height (y)		380
Width (x)		83

**Values must be between anode and separator dimensions*

(Simple 2D plot from full sheet layout)



Update | Save as | Delete

Cell Name PRIMA Cell - FCL **Version** Version 3 – 01.10.25

Sheet Design

Stack Configuration

Packaging

Case | Tabs

Add. Foils | Fixing Tape

Cell Configuration

Number of stacks in cell	2
Number of electrode pairs in stack	50
Number of electrode pairs in cell	100

End Electrodes in Stack

- [x] Both Negative
- [ ] Both Positive
- [ ] Positive/Negative

Coatings at End Electrodes

- [x] Both double sided
- [ ] 1 single sided
- [ ] Both single sided

Additional Elements

Separator overwraps (each stack)	1
Add. overwrap (each stack)	0
Insulation Shell (around all stacks)	1
Fixing Tapes	1

Calculations

Report

BoM

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Calculated Thickness		Dry Electrodes	0% SoC	100% SoC
Single Stack	[mm]	6.01	6.63	6.82
All Stacks and add. elements	[mm]	13.24	14.47	14.85
Cell outer thickness	[mm]	13.54	14.77	15.16
Swelling Stack	[%]	/	10.32	2.87
Swelling Cell	[%]	/	9.08	2.64

Number of Sheet Layers (in z)	Stack	Cell
All Electrode Sheets	101	202
Cathode Sheets	50	100
Anode Sheets	51	102
Separator Sheets	102	204
Overwrap	0	0
Insulation Shell	0.5	1
Fixing Tape	1	2

Update | Save as | Delete

Cell Name PRIMA Cell - FCL

Version Version 3 – 01.10.25

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Package Material: PET Foil 100 um

Package Material Composition

No.	Name	Version	Thickness [um]	Porosity [%]	Density [g/cm³]
1	PET	1 – 01.10.25	100	0	0.90
2					
3					
4					
5					
6					

Pouch foil Offset to Separator

Top	[mm]	18
Bottom	[mm]	18
Left Side	[mm]	5
Right Side	[mm]	5

Calculated Cell height	[mm]	420
Calculated Cell width	[mm]	95

Update Cell Dimension based on measurement ☑

Measured Cell height	[mm]	420
Measured Cell width	[mm]	85

Calculations

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- BoM
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Package Material Properties

Thickness (sum)	[um]	13	CoA xyz
Areal Weight	[mg/cm²]	0.725	Measured @CL 10.10.25
Effective Density	[g/cm³]	500	Lit. from xyz
Cost	[€/m²]	0.4	REC Value from 05.10.25

Simple 2D plotting of foils and separator over pouch foil

Update | Save as | Delete

Cell Name PRIMA Cell - FCL

Version Version 3 – 01.10.25

- Sheet Design
- Stack Configuration
- Packaging
  - Case
  - Tabs
  - Add. Foils
  - Fixing Tape

Package Material: PET Foil 100 um

Tab Design		Anode	Cathode
Tab Material		Copper mix	Aluminum
Version		1	2
Height	[mm]	38	38
Width	[mm]	65	65
Thickness	[mm]	0.3	0.5
Overlap distance with flags	[mm]	5	5
Calculated Mass	[g]	15	10

☑ Update Values?

Calculations

- Report
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- Export - CSV

Simple 2D plotting of foils and separator over pouch foil

Update | Save as | Delete

Cell Name PRIMA Cell - FCL

Version Version 3 – 01.10.25

- Sheet Design
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  - Case
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Calculations

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- Export - CSV

Update | Save as | Delete

Overwrap

PET Foil 100 um

Version: Version 3 – 01.10.25

Overwrap Materail

Name	Version	Thickness [um]	Density [g/cm³]
PET	1 – 01.10.25	100	0.90

Overwrap Properties

Thickness (sum)	[um]	13	CoA xyz
Areal Weight	[mg/cm²]	0.725	Measured @CL 10.10.25
Effective Density	[g/cm³]	500	Lit. from xyz
Cost	[€/m²]	0.4	REC Value from 05.10.25

Update | Save as | Delete

Insulation Shell

PET Foil 100 um

Version: Version 3 – 01.10.25

Insulation Shell Materail Composition

Name	Version	Thickness [um]	Density [g/cm³]
PET	1 – 01.10.25	100	0.90

Insulation Shell Properties

Thickness (sum)	[um]	13	CoA xyz
Areal Weight	[mg/cm²]	0.725	Measured @CL 10.10.25
Effective Density	[g/cm³]	500	Lit. from xyz
Cost	[€/m²]	0.4	REC Value from 05.10.25

Update | Save as | Delete

Cell Name PRIMA Cell - FCL

Version Version 3 – 01.10.25

Sheet Design

Stack Configuration

Packaging

Case | Tabs

Add. Foils | Fixing Tape

Package Material: PET Foil 100 um

Calculations

Report

BoM

Export - CSV

Simple 2D plotting of foils and separator over pouch foil