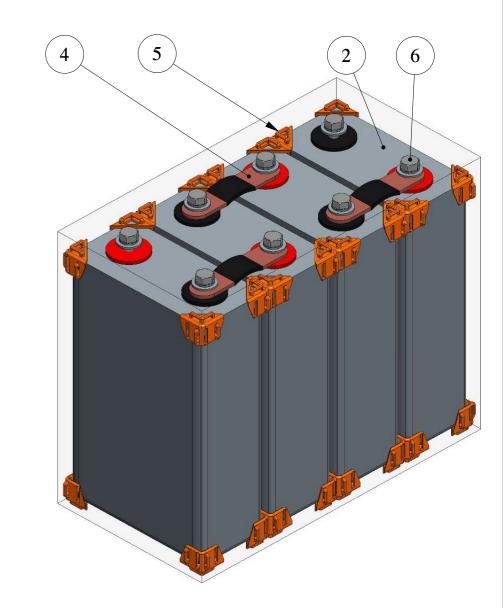


Item	Part Number	REV	Description	Material	Mass Each kg	Qty
2	SS-BV-CA100-PI	A	CALB 100 Ah LiFEPO4 Cell	Lithium Iron Phosphate	2.9	4
4	SS-BV-BB-CA100-PI	A	Busbar	Copper	0.0	3
5	SS-BV-LIGO-01MO	A	Ligo Air Space Connectors	3D Printed PLA	0.0	32
6	BV-LFP-M8-AS	A	Screw, Washer, Spring Washer	Stainless Steel	0.0	8



	Pack Energy Storage Capacity	1.3 kWh
	Pack Nominal Voltage	12 V
	Pack Current Capacity	100 Al
	Cell Voltage	3.2 V
	Cell Current Capacity	100 Al
	Parallel Cells	1
	Series Cells	4
E	LiEaDOA Rattary Dack	Description

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Prepared For

 $x.xx \pm 0.01$  $x.x \pm 0.1$ 

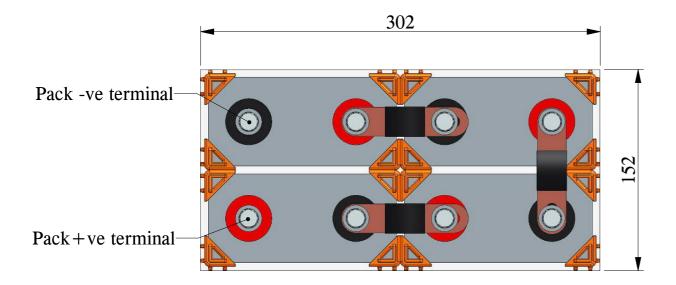
UNLESS OTHERWISE	LiFePO4 Battery Pack		Descripti
STATED DIMS ARE IN MM	The Battery Volt		Proj
TOLERACES $x.xx + 0.01$	BV-CALB100-1P4S-12V-AS	Drawing Number	41.42 Mass
$\begin{array}{c} x.x \pm 0.1 \\ x \pm 0.5 \end{array}$	Refer to BOM	Assemble	
HOLE $\emptyset + 0.15$	Initial Dalaasa	Current Re	evision Descripti

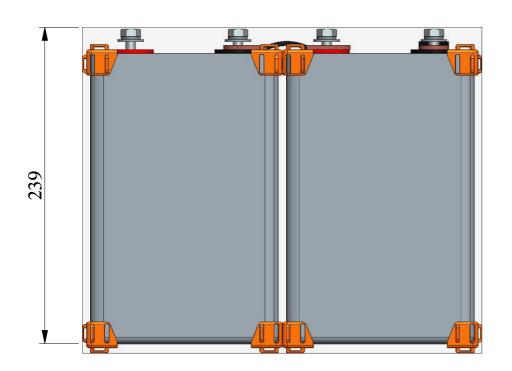
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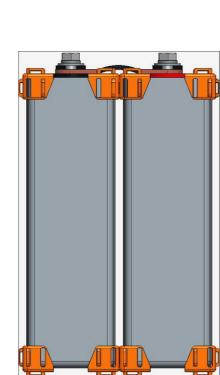
1 OF 14

Initial Release Drawn Checked Approved Revision 
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Part Number

5

SS-BV-CA100-PI

BV-LFP-M8-AS

SS-BV-BB-CA100-PI

SS-BV-LIGO-01MO



Pack Current Capacity

Cell Voltage

Cell Current Capacity

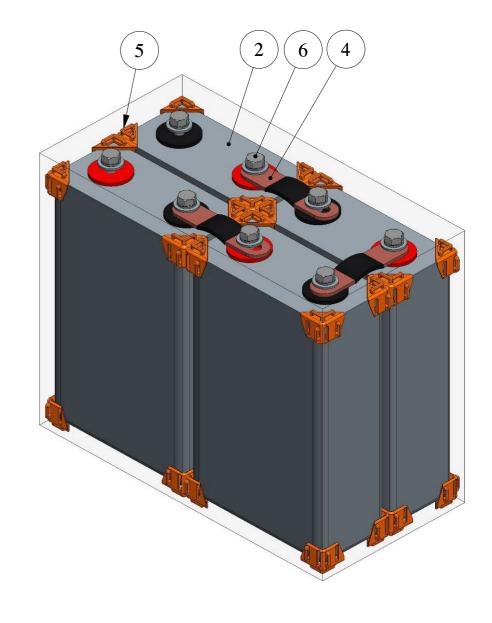
Parallel Cells

Series Cells

By UNLESS OTHERWISE STATED

DIMS ARE IN MM

TOLERACES  $x.xx \pm 0.01$   $x.x \pm 0.1$   $x \pm 0.5$ HOLE  $\emptyset + 0.15$ ANGLES  $\pm 0.5$ Personnel Designed Drawn Check



Pack Energy Storage Capacity

Pack Nominal Voltage

DH

Material

Copper

3D Printed PLA

Stainless Steel

Lithium Iron Phosphate 2.9

Description

Busbar

Α

Α

Α

A

CALB 100 Ah LiFEPO4 Cell

Ligo Air Space Connectors

Screw, Washer, Spring Washer

Mass Each kg

0.0

0.0

Qty

32

1.3 kWh

12 V

100 Ah

Current Revision Description

Sheet No

2 OF 14

Revision

	Cell Voltage			3.2 V
	Cell Current Capacity	10	00 Ah	
	Parallel Cells			1
	Series Cells			4
ISE	LiFePO4 Battery Pack		De	escription
М	The Battery Volt			Project
	BV-CALB100-1P4S-2X2-12V-AS	Drawing Number	41.42	Mass kg
	Matarial	Drocess		Einich

Assemble

Approved

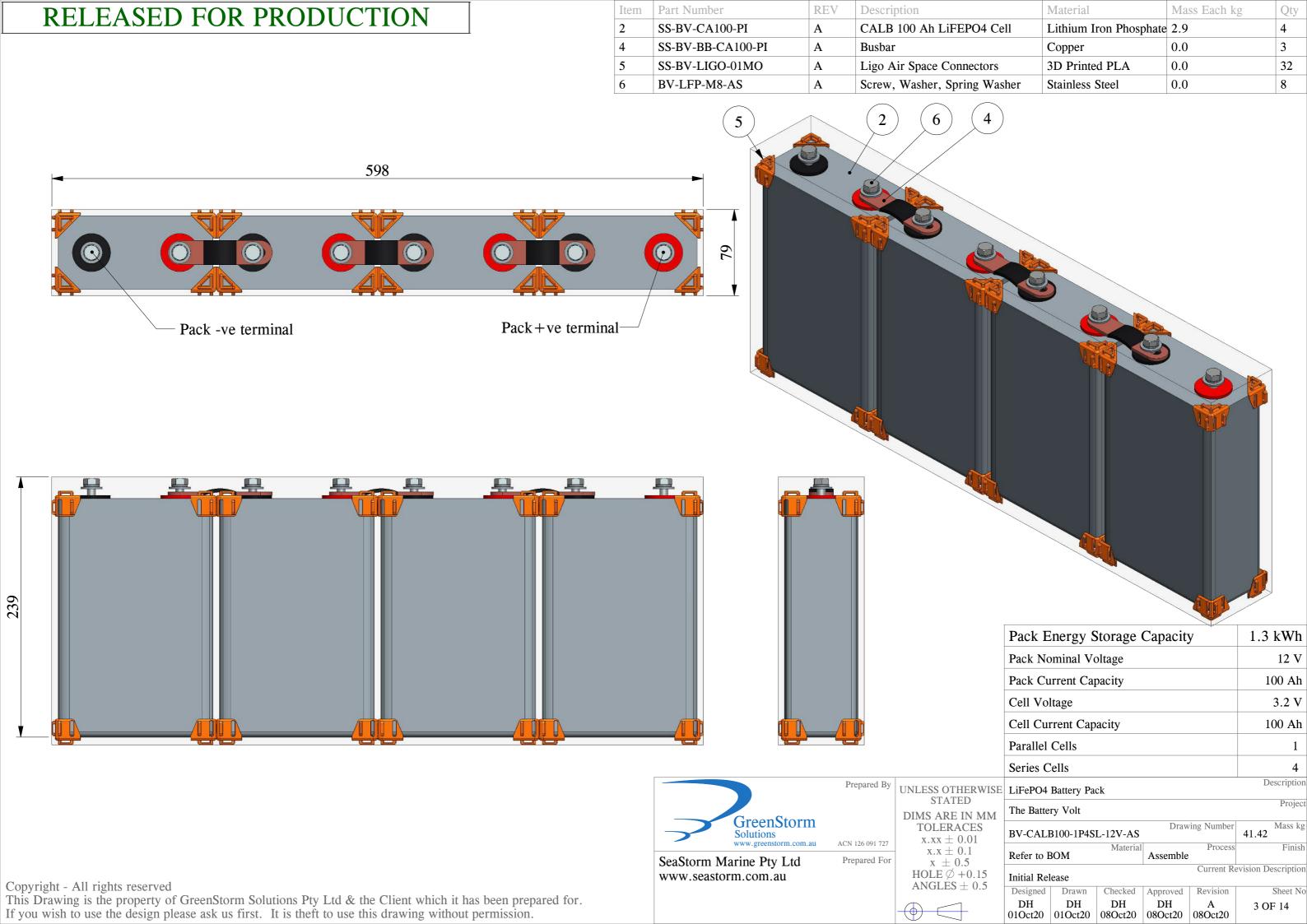
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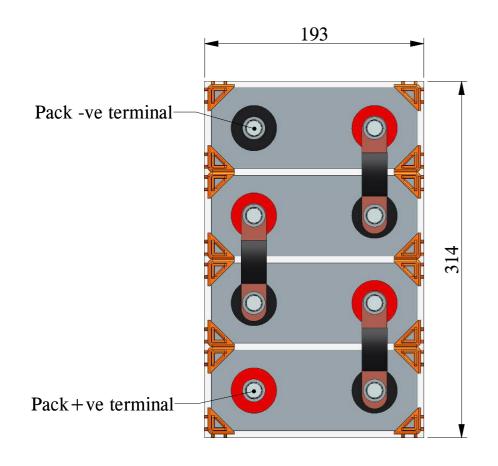
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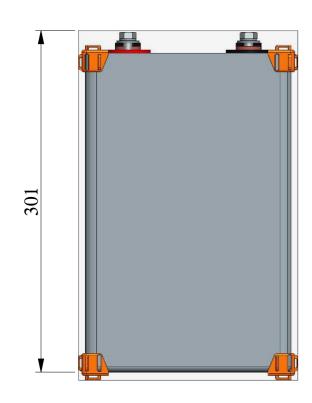
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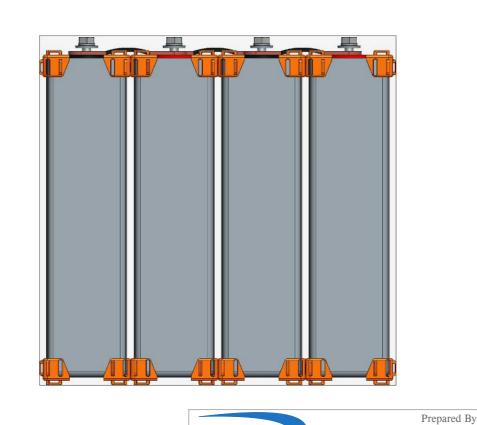
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Part Number

5

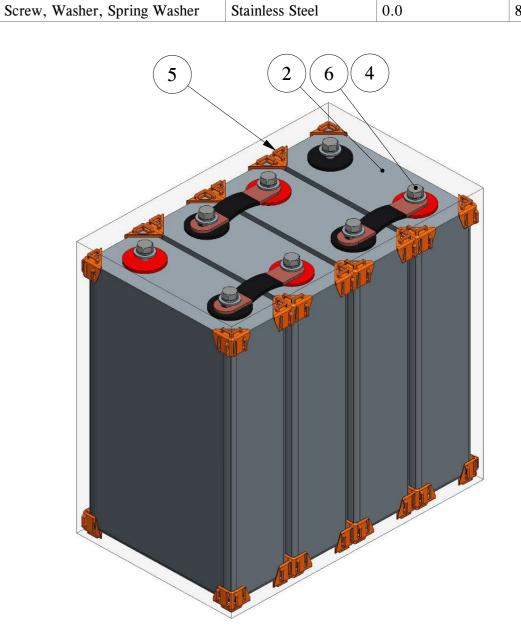
6

SS-BV-BB-CA180-PI

SS-BV-LIGO-01MO

SS-BV-CA180-PI

**BV-LFP-M8-AS** 



Material

Copper

3D Printed PLA

Lithium Iron Phosphate 5.0

Mass Each kg

0.1

0.0

Qty

3

32

2.3 kWh

12 V

180 Ah

3.2 V

180 Ah

Description

Mass kg

Sheet No

4 OF 14

Description

CALB 180 Ah LiFEPO4 Cell

Ligo Air Space Connectors

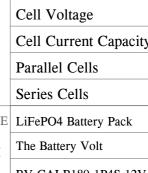
Busbar

Α

Α

Α

Α



Pack Nominal Voltage

Pack Current Capacity

DIMS ARE IN MM **TOLERACES**  $x.xx \pm 0.01$  $x.x \pm 0.1$  $\begin{array}{c} x \; \pm \; 0.5 \\ \text{HOLE} \, \varnothing + 0.15 \end{array}$ ANGLES  $\pm~0.5$ 

DH

Cell Current Capacity UNLESS OTHERWISE STATED LiFePO4 Battery Pack Drawing Number BV-CALB180-1P4S-12V-AS 41.42 Refer to BOM Assemble Current Revision Description Initial Release Drawn Checked Approved Revision

DH

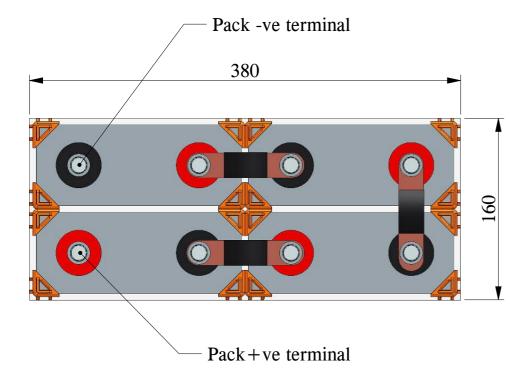
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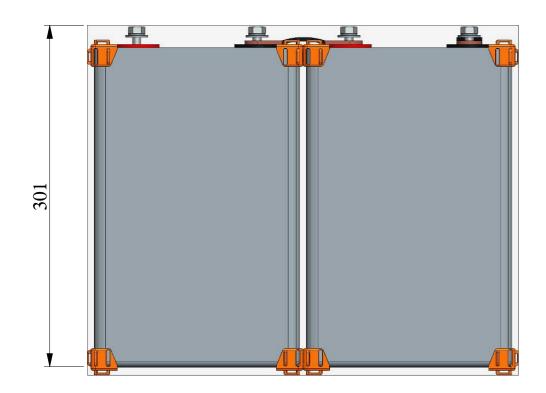
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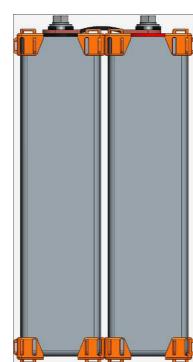
DH

Pack Energy Storage Capacity

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Part Number

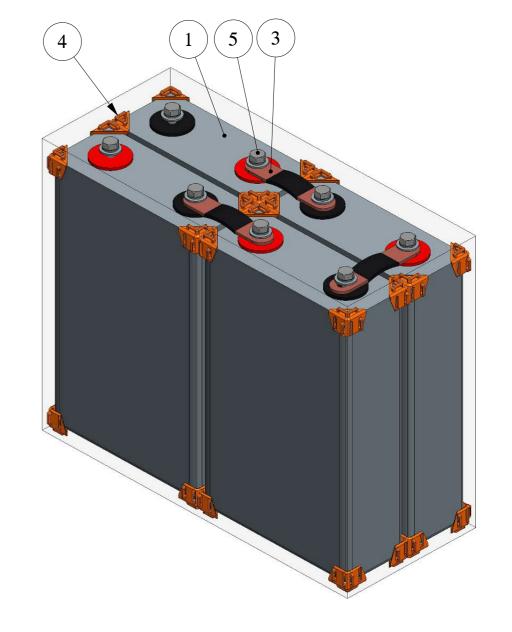
6

SS-BV-BB-CA180-PI

SS-BV-LIGO-01MO

SS-BV-CA180-PI

BV-LFP-M8-AS



Material

Copper

3D Printed PLA

Stainless Steel

Lithium Iron Phosphate 5.0

Mass Each kg

0.1

0.0

0.0

Qty

3

32

2.3 kWh

12 V

180 Ah

3.2 V

180 Ah

5 OF 14



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UNLESS OTHERWI DIMS ARE IN MN **TOLERACES**  $x.xx \pm 0.01$  $x.x \pm 0.1$  $\begin{array}{c} x \; \pm \; 0.5 \\ \text{HOLE} \, \varnothing \; + 0.15 \end{array}$ ANGLES  $\pm~0.5$ 

Description

CALB 180 Ah LiFEPO4 Cell

Screw, Washer, Spring Washer

Ligo Air Space Connectors

Busbar

Α

Α

Α

Α

	Parallel Cells		1
	Series Cells		4
ISE	LiFePO4 Battery Pack		Descriptio
M	The Battery Volt		Projec
	BV-CALB180-1P4S-2X2-12V-AS	Drawing Number	41.42 Mass k
	Material	Process	Finis

Pack Energy Storage Capacity

Pack Nominal Voltage

Pack Current Capacity

Cell Current Capacity

Cell Voltage

DH

Refer to BOM Assemble Current Revision Description Initial Release Drawn Checked Approved Revision Sheet No

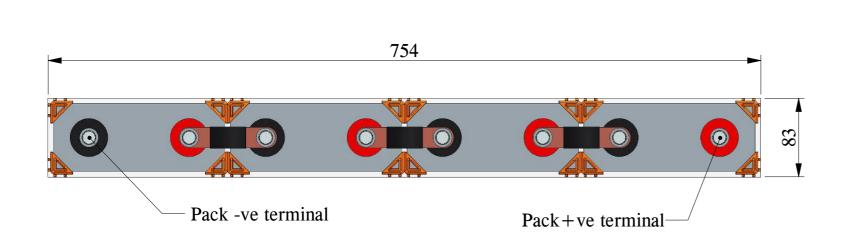
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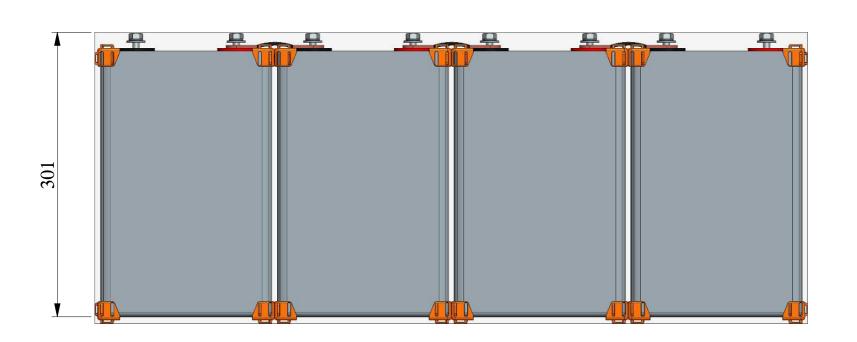
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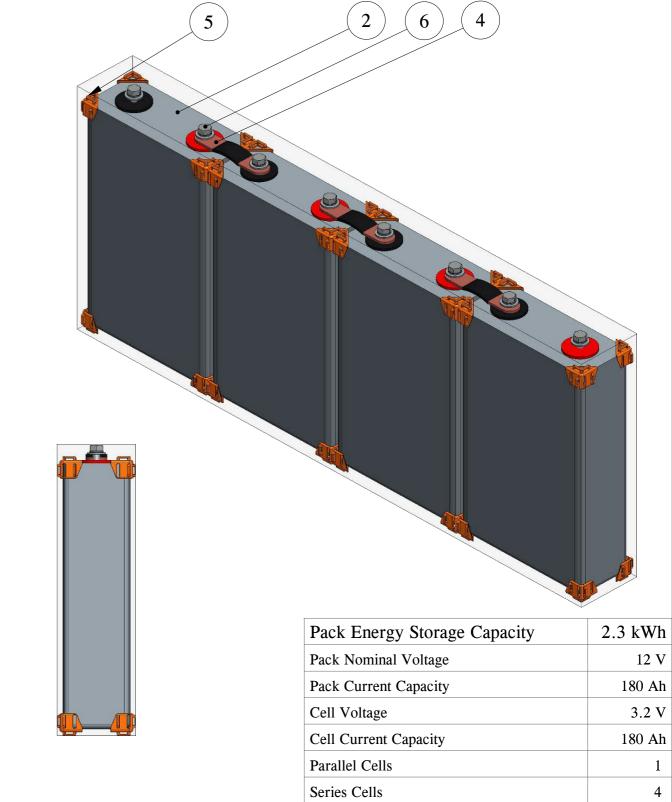
01Oct20 | 01Oct20 | 08Oct20 | 08Oct20 | 08Oct20

DH

[tem	Part Number	REV	Description	Material	Mass Each kg	Qty
5	SS-BV-BB-CA180-PI	A	Busbar	Copper	0.1	3
6	SS-BV-CA180-PI	A	CALB 180 Ah LiFEPO4 Cell	Lithium Iron Phosphate	5.0	4
7	SS-BV-LIGO-01MO	A	Ligo Air Space Connectors	3D Printed PLA	0.0	32
3	BV-LFP-M8-AS	A	Screw, Washer, Spring Washer	Stainless Steel	0.0	8







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Prepared For

DIMS ARE IN MM **TOLERACES**  $x.xx \pm 0.01$  $x.x \pm 0.1$ ANGLES  $\pm~0.5$ 

The Battery Volt

UNLESS OTHERWISE LiFePO4 Battery Pack STATED

Drawing Number BV-CALB180-1P4SL-12V-AS 41.42 Refer to BOM Assemble

DH

Initial Release Drawn Checked Approved

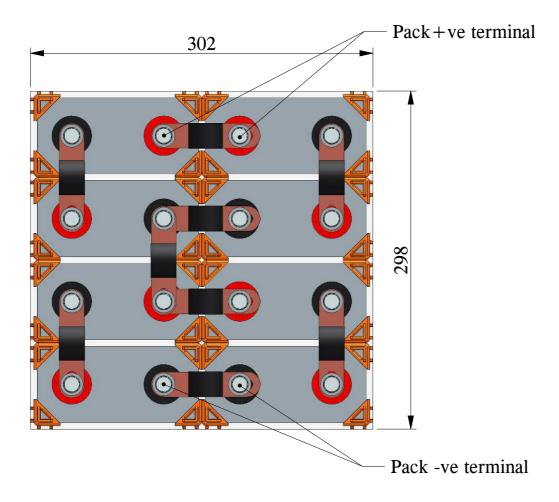
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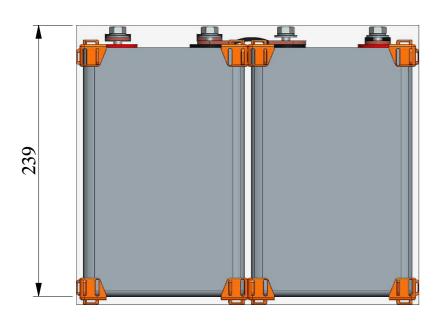
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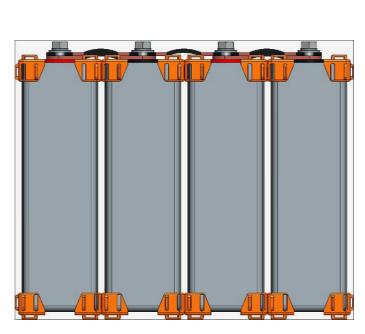
DH

Revision Sheet No DH 6 OF 14

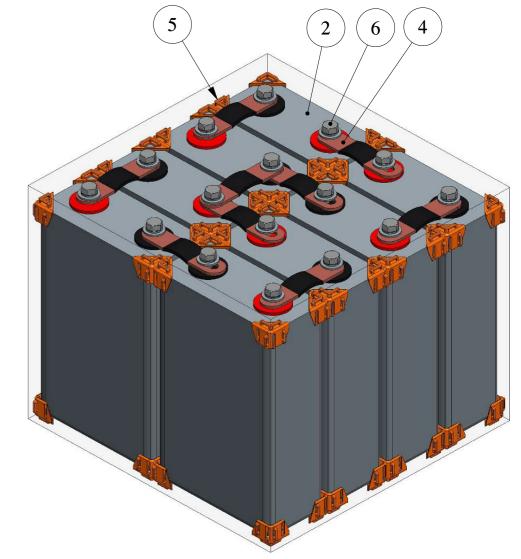
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It	em	Part Number	REV	Description	Material	Mass Each kg	Qty
2		SS-BV-CA100-PI	A	CALB 100 Ah LiFEPO4 Cell	Lithium Iron Phosphate	2.9	8
4		SS-BV-BB-CA100-PI	A	Busbar	Copper	0.0	9
5		SS-BV-LIGO-01MO	A	Ligo Air Space Connectors	3D Printed PLA	0.0	64
6		BV-LFP-M8-AS	A	Screw, Washer, Spring Washer	Stainless Steel	0.0	16



		Prepared By	UNLESS OTHERWISI STATED
3	GreenStorm Solutions www.greenstorm.com.au	ACN 126 091 727	DIMS ARE IN MM TOLERACES $x.xx \pm 0.01$
SeaStorm Ma	arine Pty Ltd	Prepared For	$\begin{array}{c} \text{x.x} \pm 0.1 \\ \text{x} \pm 0.5 \\ \text{HOLE} \ \emptyset + 0.15 \end{array}$

HOLE  $\emptyset$  +0.13 ANGLES  $\pm$  0.3

	Cell Vol	3.2 V				
	Cell Cui		100 Ah			
	Parallel	Cells				2
	Series C	ells				4
WISE	LiFePO4	Battery Pac	ck			Description
MM	The Batte	Project				
S	BV-CALI	41.42 Mass kg				
	Refer to E	BOM	Material	Assemble	Process	Finish
15	Initial Rel	evision Description				
.5	Designed	Drawn	Checked	Approved	Revision	Sheet No
	DH 01Oct20	DH 01Oct20	DH 08Oct20	DH 08Oct20	A 08Oct20	7 OF 14

2.6 kWh

12 V

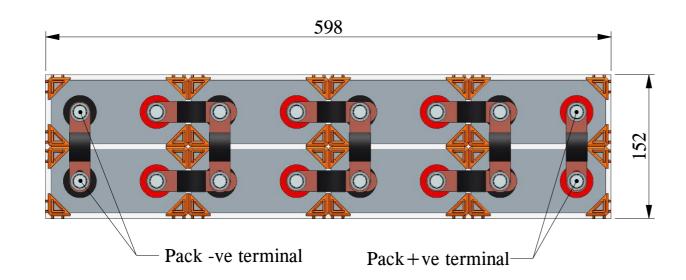
200 Ah

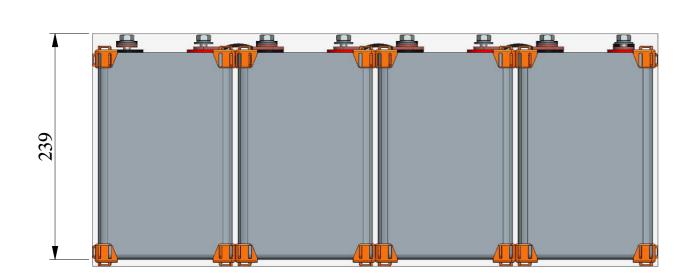
Pack Energy Storage Capacity

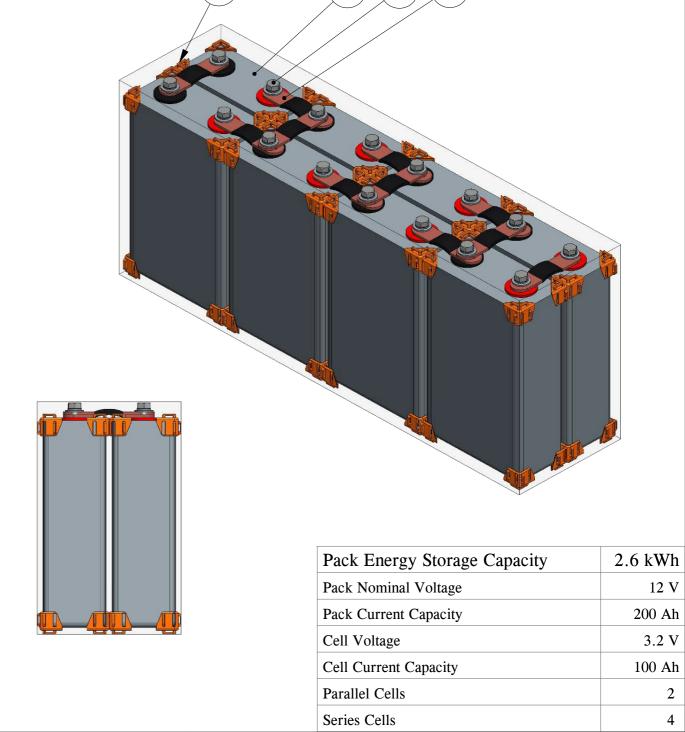
Pack Nominal Voltage

Pack Current Capacity

Item	Part Number	REV	Description	Material	Mass Each kg	Qty
2	SS-BV-CA100-PI	A	CALB 100 Ah LiFEPO4 Cell	Lithium Iron Phosphate	2.9	8
5	SS-BV-BB-CA100-PI	A	Busbar	Copper	0.0	11
6	SS-BV-LIGO-01MO	A	Ligo Air Space Connectors 3D Printed PLA (		0.0	64
7	BV-LFP-M8-AS	A	Screw, Washer, Spring Washer	Stainless Steel	0.0	16







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DIMS ARE IN MM **TOLERACES**  $x.xx \pm 0.01$  $x.x \pm 0.1$ 

Prepared By

Refer to BOM

Description UNLESS OTHERWISE STATED LiFePO4 Battery Pack The Battery Volt

Drawing Number BV-CALB100-2P4SL-12V-AS 41.42 Assemble Initial Release

Sheet No

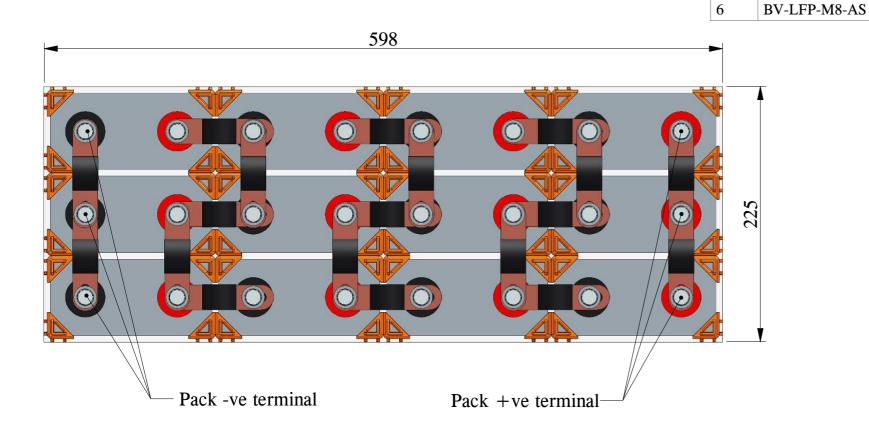
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ANGLES  $\pm~0.5$ DH

Drawn Checked Approved Revision DH DH DH

01Oct20 | 01Oct20 | 08Oct20 | 08Oct20 | 08Oct20

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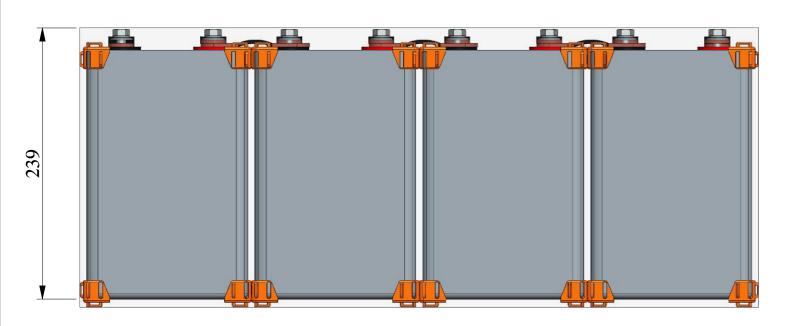
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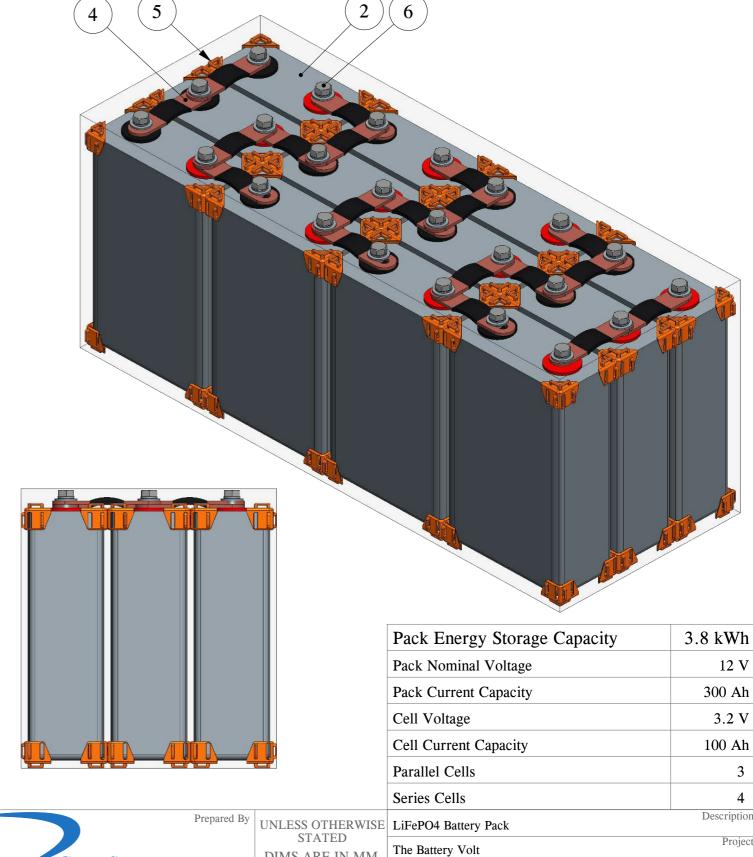
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SS-BV-CA100-PI

SS-BV-BB-CA100-PI

SS-BV-LIGO-01MO





DIMS ARE IN MM

**TOLERACES** 

 $x.xx \pm 0.01$ 

 $x.x \pm 0.1$ 

 $\begin{array}{c} x \; \pm \; 0.5 \\ \text{HOLE} \, \varnothing + 0.15 \end{array}$ 

ANGLES  $\pm~0.5$ 

ACN 126 091 727

Prepared For

BV-CALB100-3P4SL-12V-AS

DH

Refer to BOM

Initial Release

DH

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Material

Copper

3D Printed PLA

Stainless Steel

Lithium Iron Phosphate 2.9

Description

Busbar

Α

Α

Α

A

CALB 100 Ah LiFEPO4 Cell

Ligo Air Space Connectors

Screw, Washer, Spring Washer

Mass Each kg

Drawing Number

Revision

Assemble

Approved

DH

Checked

DH

01Oct20 | 01Oct20 | 08Oct20 | 08Oct20 | 08Oct20

41.42

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0.0

0.0

0.0

Qty

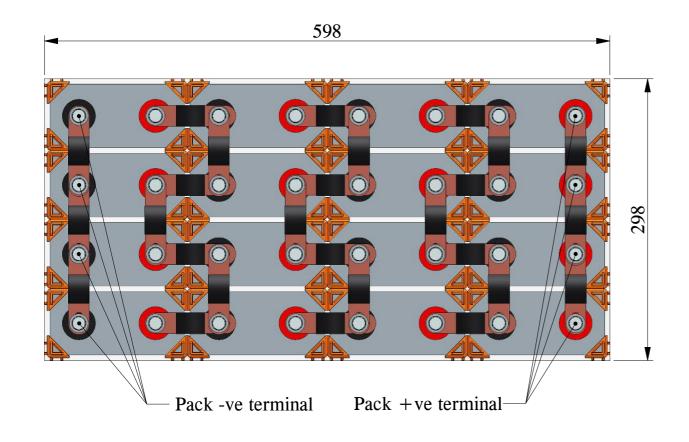
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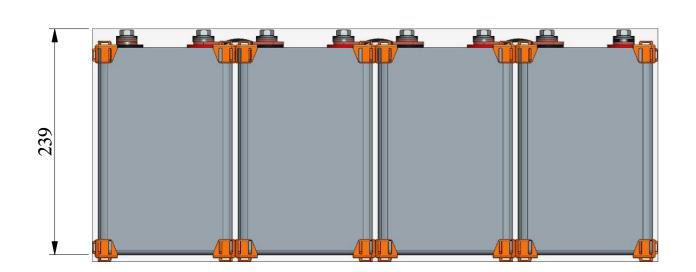
19

96

24

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L	Part Number	KEV	Descrip	011011	1	viateriai		IVIa	ss Each k	g	Qty
	SS-BV-CA100-PI	A	CALB	100 Ah LiFEPO4 Ce	11 1	Lithium I	ron Phos				16
	SS-BV-BB-CA100-PI	A	Busbar		(	Copper		0.0			27
	SS-BV-LIGO-01MO	A	Ligo A	ir Space Connectors	3	3D Printe	ed PLA	0.0			128
	BV-LFP-M8-AS	A	Screw,	Washer, Spring Was	her S	Stainless	Steel	0.0			32
		5	6	7	2						
						ominal Vo	Storage (	eupueit.	,	3.1	kWh 12 V
						irrent Ca				40	00 Ah
				<b>y</b>	Cell Vo		_ <del>-</del>				3.2 V
						rrent Cap	acity			10	00 Ah
					Parallel		<u>-</u>				4
					Series C						4
		P	repared By	UNLESS OTHERWISE		Battery Pa	ck			De	scription
				STATED	The Batte		UK.				Project
	GreenSto	rm		DIMS ARE IN MM TOLERACES		B100-4P4S	I _10\7 A C	Draw	ing Number	41.42	Mass kg
	Solutions www.greenstorm.co		V 126 091 727	$\begin{array}{c} \text{x.xx} \pm 0.01 \\ \text{x.x} \pm 0.1 \end{array}$			Material	A 11	Process	41.42	Finish
	SeaStorm Marine Pty Lto	d Pr	repared For	$x \pm 0.5$	Refer to BOM Assemble  Current Revision Description					scription	
	www.seastorm.com.au			HOLE $\emptyset + 0.15$ ANGLES $\pm 0.5$	Initial Release					Sheet No	
					DH 01Oct20	DH 01Oct20	DH 08Oct20	DH 08Oct20	A 08Oct20	10 OI	
				) 7					-		

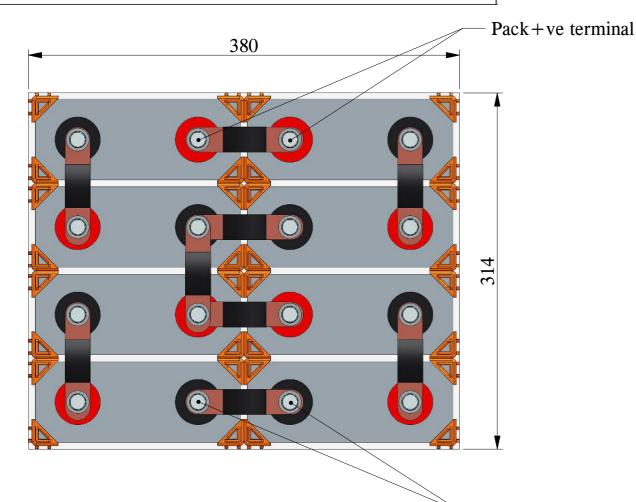
Description

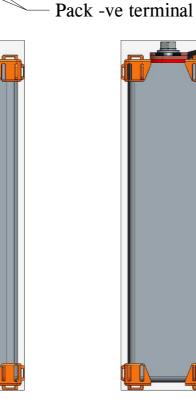
Mass Each kg

Qty

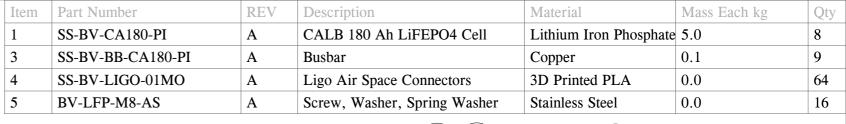
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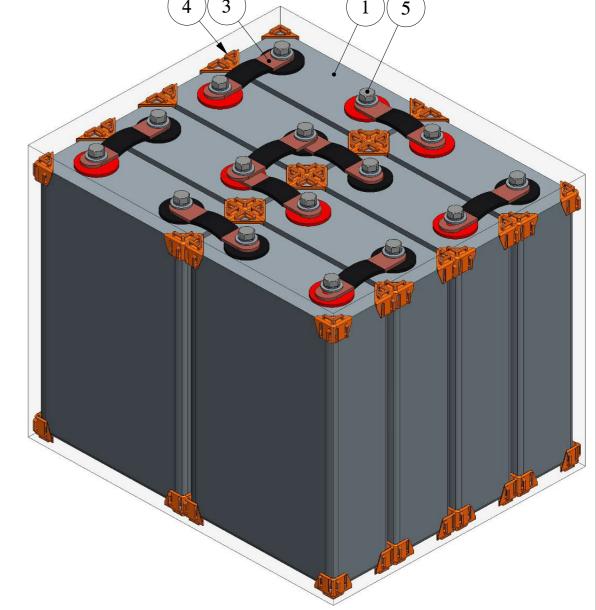
Part Number











Pack Energy Storage Capacity	4.6 kW
Pack Nominal Voltage	12
Pack Current Capacity	360 A
Cell Voltage	3.2
Cell Current Capacity	180 A
Parallel Cells	2
Series Cells	4

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ACN 126 091 727 Prepared For

Prepared By

DIMS ARE IN MM **TOLERACES**  $x.xx \pm 0.01$  $x.x \pm 0.1$  $\begin{array}{c} x \; \pm \; 0.5 \\ \text{HOLE} \, \varnothing \; + 0.15 \end{array}$ ANGLES  $\pm~0.5$ 

UNLESS OTHERWISE STATED LiFePO4 Battery Pack The Battery Volt

Drawing Number

DH

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BV-CALB180-2P4S-12V-AS Refer to BOM Assemble Initial Release Checked Approved Revision

DH

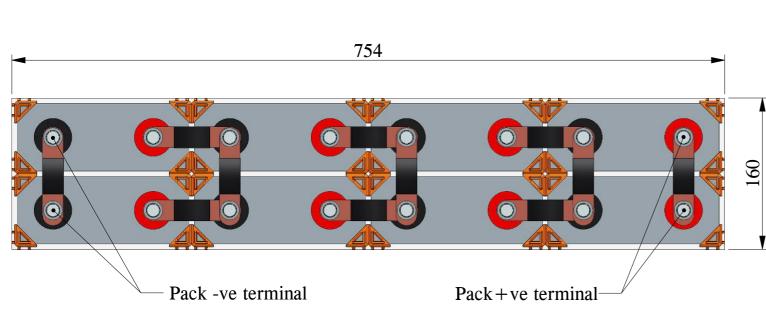
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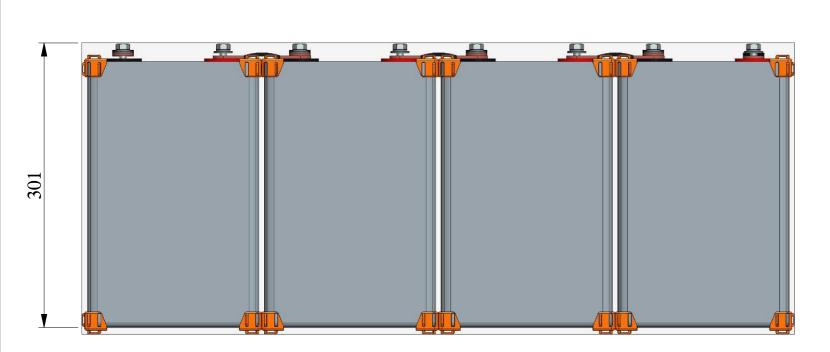
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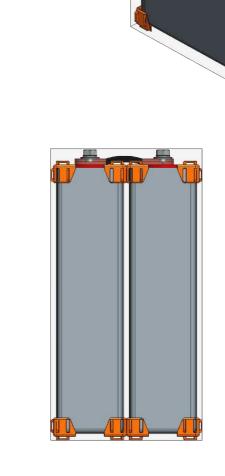
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Part Number	REV	Description	Material	Mass Each kg
SS-BV-CA180-PI	A	CALB 180 Ah LiFEPO4 Cell	Lithium Iron Phosphate	5.0
SS-BV-BB-CA180-PI	A	Busbar	Copper	0.1
SS-BV-LIGO-01MO	A	Ligo Air Space Connectors	3D Printed PLA	0.0
BV-LFP-M8-AS	A	Screw, Washer, Spring Washer	Stainless Steel	0.0







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Pack Nominal Voltage Pack Current Capacity Cell Voltage Cell Current Capacity **TOLERACES**  $x.xx \pm 0.01$  $x.x \pm 0.1$ ANGLES  $\pm~0.5$ 

UNLESS OTHERWISE STATED LiFePO4 Battery Pack DIMS ARE IN MM ACN 126 091 727 Prepared For

Parallel Cells

Series Cells The Battery Volt Refer to BOM

Drawing Number BV-CALB180-2P4SL-12V-AS 41.42

11

16

4.6 kWh

12 V

360 Ah

180 Ah

3.2 V

Assemble Initial Release

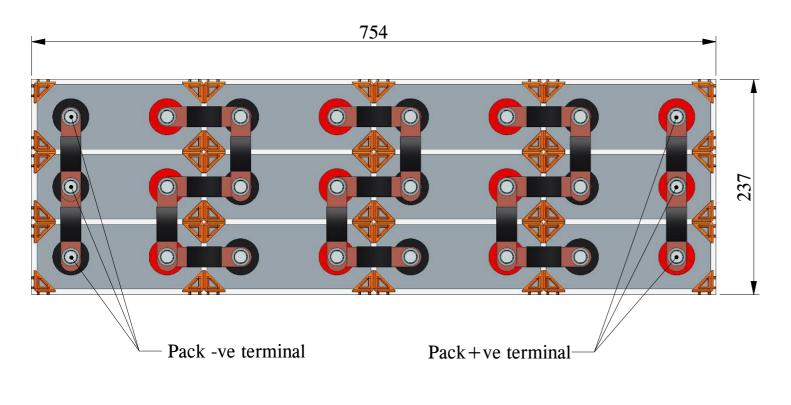
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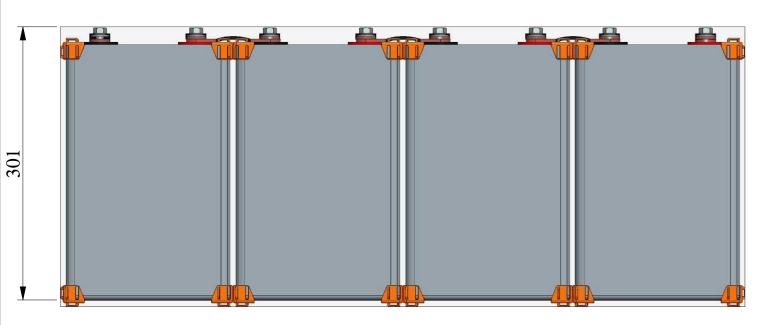
Pack Energy Storage Capacity

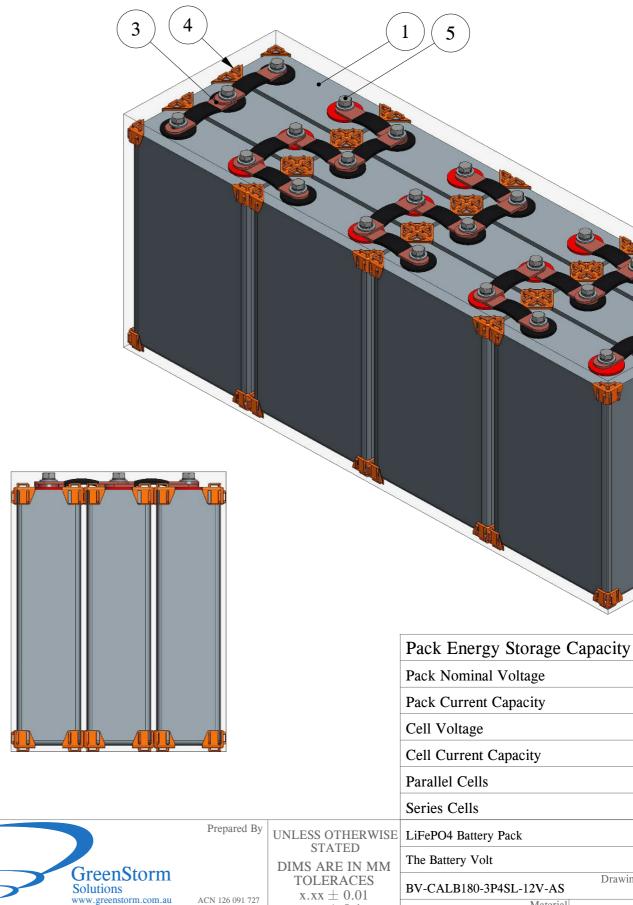
DH

Drawn Checked Approved Revision DH DH DH 12 OF 14

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 $x.x \pm 0.1$ 

 $\begin{array}{c} x \; \pm \; 0.5 \\ \text{HOLE} \, \varnothing + 0.15 \end{array}$ 

ANGLES  $\pm~0.5$ 

Prepared For

Refer to BOM

Initial Release

DH

DH

Description

Busbar

Α

Α

Α

Α

CALB 180 Ah LiFEPO4 Cell

Ligo Air Space Connectors

Screw, Washer, Spring Washer

Material

Copper

3D Printed PLA

Stainless Steel

Lithium Iron Phosphate 5.0

Mass Each kg

0.1

0.0

Qty

12

19

96

24

6.9 kWh

12 V

540 Ah

3.2 V

3

180 Ah

41.42

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Drawing Number

Revision

Assemble

DH

Checked Approved

DH

01Oct20 | 01Oct20 | 08Oct20 | 08Oct20 | 08Oct20

Part Number

SS-BV-CA180-PI

BV-LFP-M8-AS

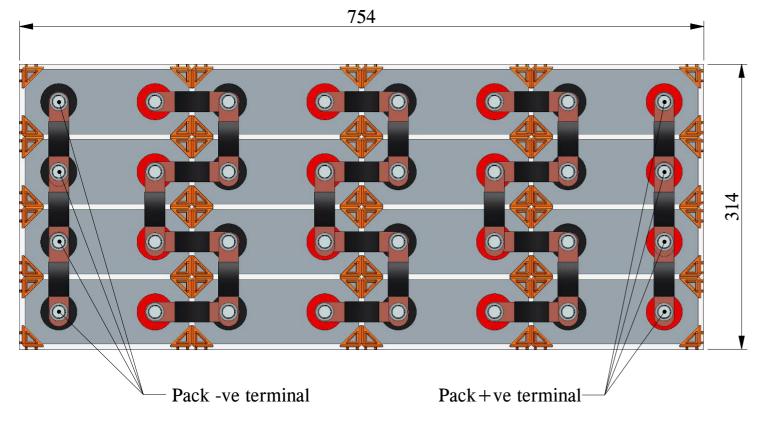
SS-BV-BB-CA180-PI

SS-BV-LIGO-01MO

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Part Number

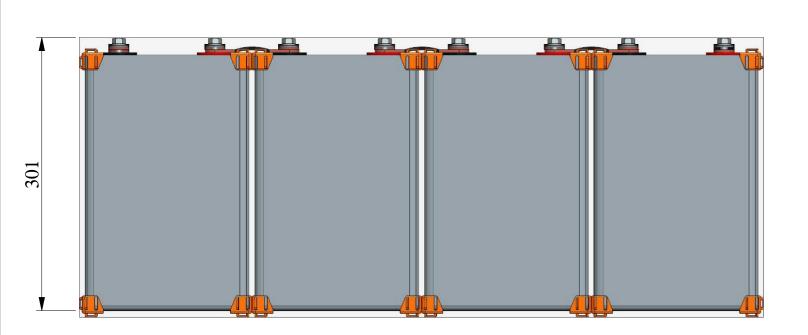
6

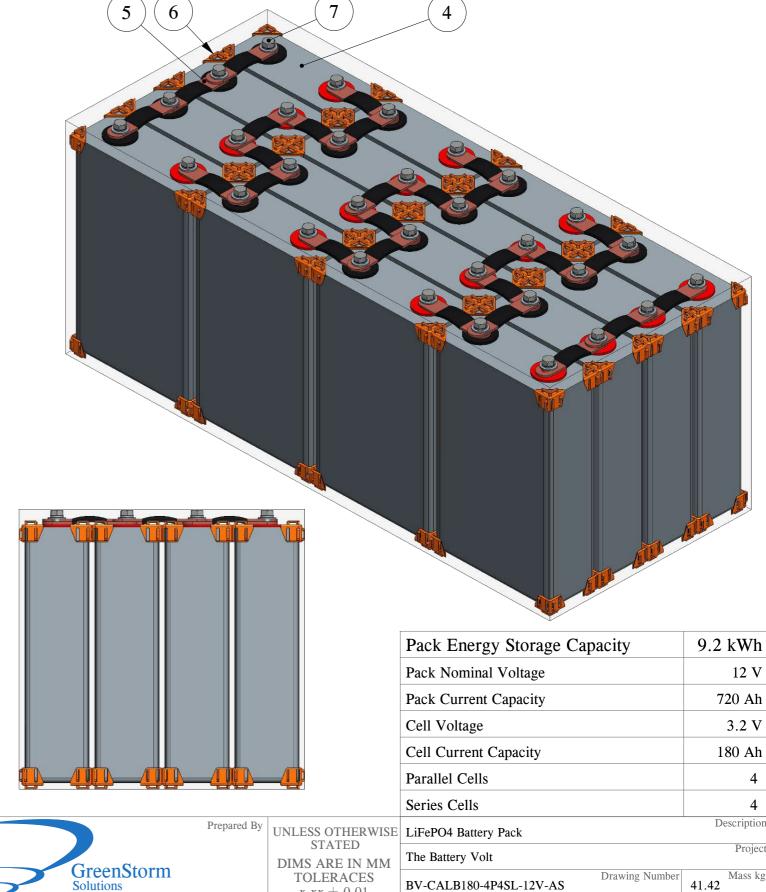
SS-BV-CA180-PI

BV-LFP-M8-AS

SS-BV-BB-CA180-PI

SS-BV-LIGO-01MO





 $x.xx \pm 0.01$ 

 $x.x \pm 0.1$ 

 $\begin{array}{c} x \; \pm \; 0.5 \\ \text{HOLE} \, \varnothing + 0.15 \end{array}$ 

ANGLES  $\pm~0.5$ 

Refer to BOM

Initial Release

DH

DH

Assemble

DH

Revision

14 OF 14

Checked Approved

DH

01Oct20 | 01Oct20 | 08Oct20 | 08Oct20 | 08Oct20

ACN 126 091 727

Prepared For

SeaStorm Marine Pty Ltd

www.seastorm.com.au

Material

Copper

3D Printed PLA

Stainless Steel

Lithium Iron Phosphate 5.0

Description

Busbar

Α

Α

Α

A

CALB 180 Ah LiFEPO4 Cell

Ligo Air Space Connectors

Screw, Washer, Spring Washer

Mass Each kg

0.1

0.0

0.0

Qty

16

27

128

32

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