

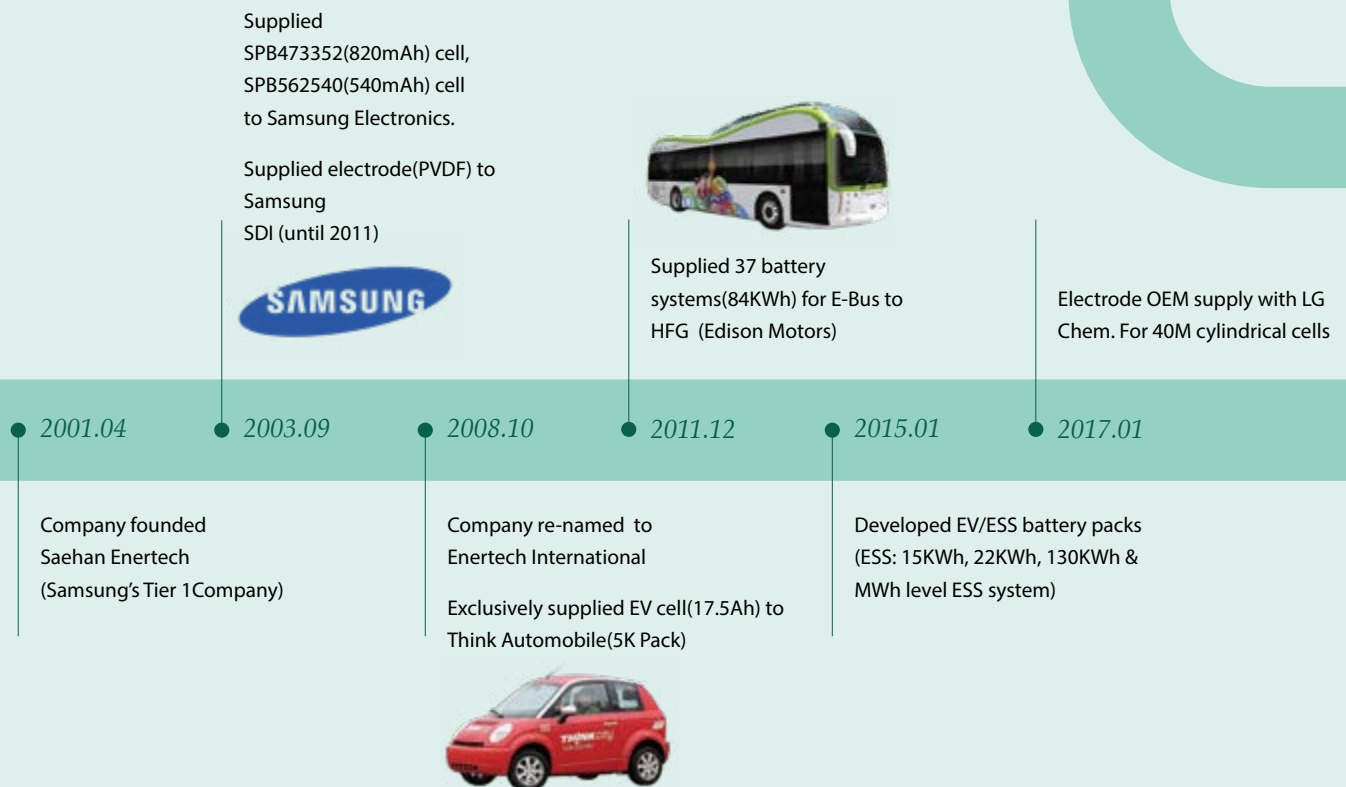


Lithium-Ion Battery Solution Provider

HISTORY

Established April 1st, 2001
 Location Chung-ju, Republic of Korea
 Products Customized Electrodes, Li-Ion Cells, Modules and Packs

OEM for Electrodes, Cell and Battery from EnerTech International are available for any potential battery manufacturers or users.



Our Trusted Partners

 LG Energy Solution

 **KOMATSU**
Creating value together

 **EPCA**

 American Battery Solutions

 **HYUNDAI**

 **GM**

 **NAVITAS**
SYSTEMS

 **ABC**
TRANSMISSIONS LTD.

 **BE POWER**
Battery and Energy Modules

 **GIT**

 **Ford**

 **VIAVI**
VIAVI Solutions

 **MEDIANA**

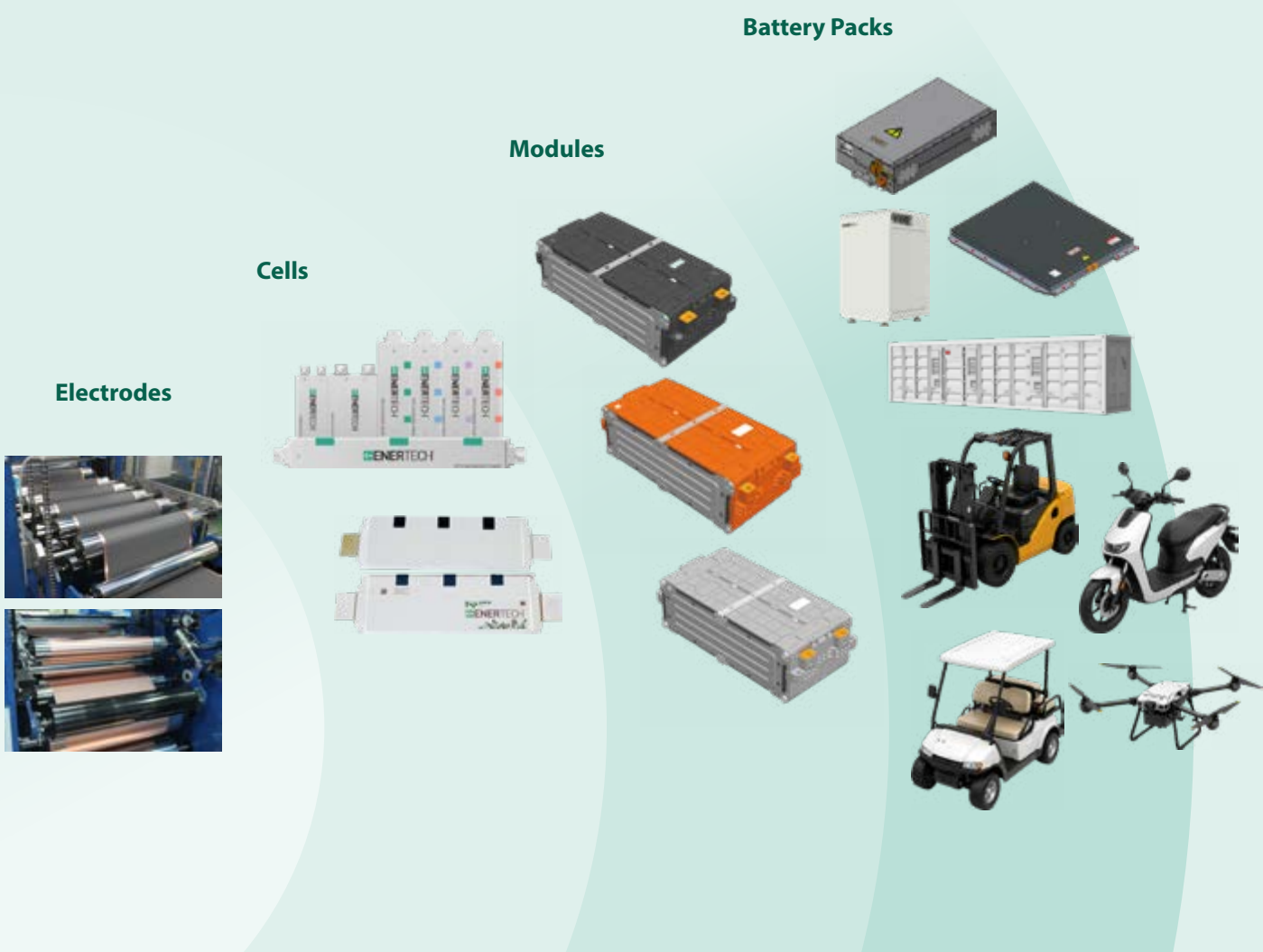
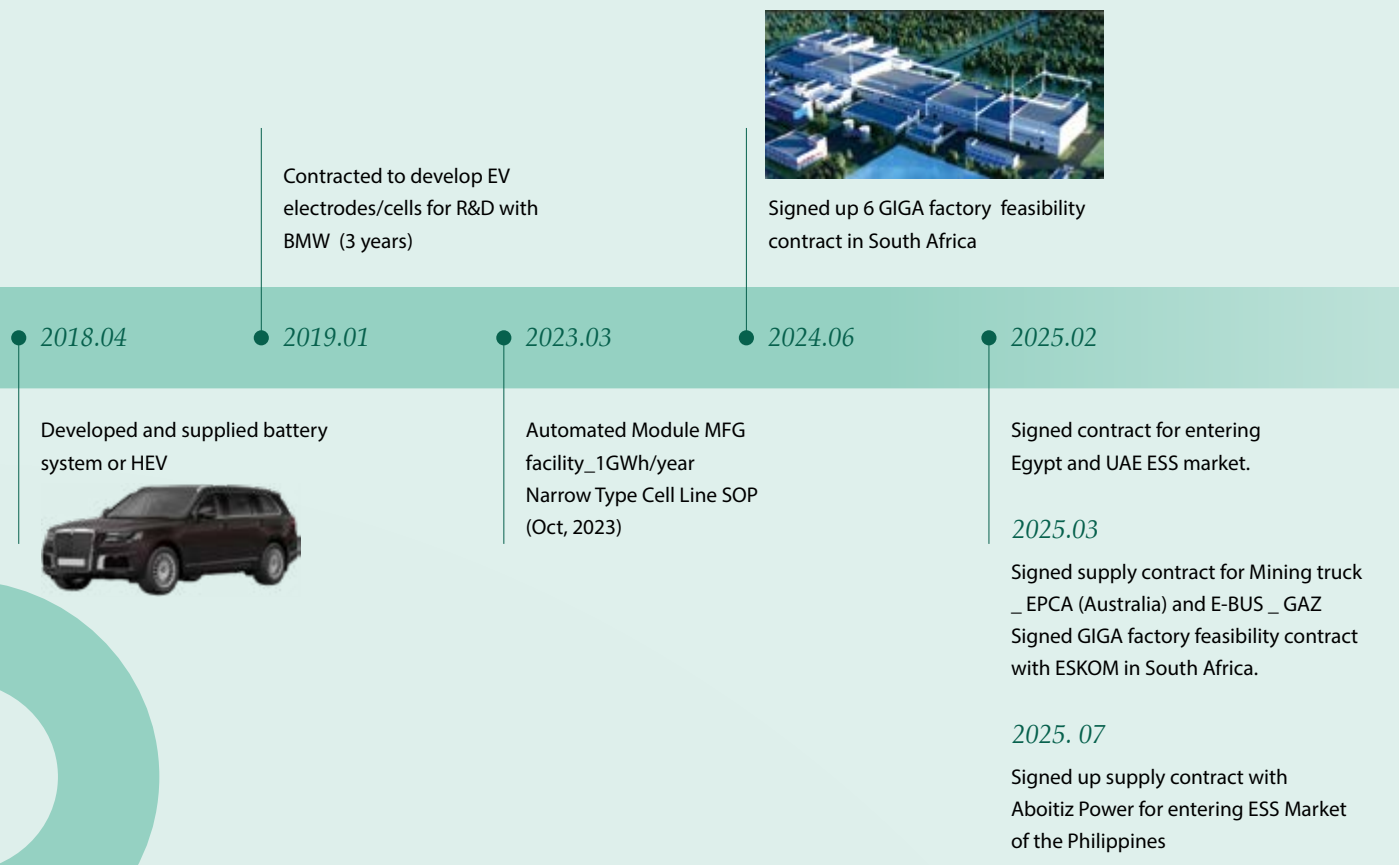
 **ENOVIX**

 **Talos**

 **WYON**
BATTERY

 **BROOKVILLE**

 **SUNGWOO HiTECH**



ELECTRODE

EnerTech International designs custom electrode solutions tailored to OEM specifications, with our in-house development team capable of translating customer requirements into innovative designs.

Our advanced manufacturing excellence stems from deep expertise in materials science and cutting-edge automated production processes.

We're committed to delivering the highest-quality battery solutions across diverse industries.



WORLD-CLASS COATING TECHNOLOGY

OVER

25

 YEARS

Established in 2001, EnerTech International has been at the forefront of battery material innovation, specializing in advanced coating and pressing solutions for active materials.

OVER

20

 YEARS

EnerTech International's comprehensive material processing expertise spans established and emerging battery technologies from NCM and LFP to advanced chemistries demonstrating capability to reliably support the full spectrum of battery technology development.

OVER

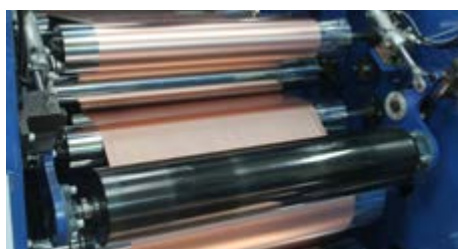
15

 KINDS

Our in-house development of 10+ electrode chemistries demonstrates EnerTech International's deep technical expertise and proven capability ability to meet diverse customer needs in rapidly evolving battery markets.

**PVDF &
SBR BINDER
BOTH EXPERIENCED**

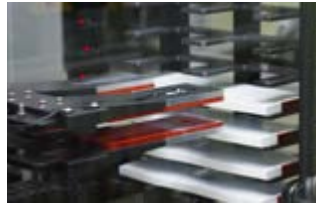
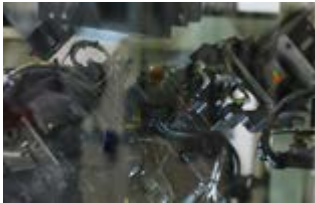
Electrode		Coating		Press
		Continuous	Intermittent	
Dimension	Width	60~680mm	60~680mm	60~680mm
	Length	3,500m	Coating: 100mm~∞ Non-C: 20~100mm	Max. 1,500m
	Thickness	15~300μm	15~300μm	15~300μm
	Loading Density	10~50mg/cm ²	10~50mg/cm ²	10~50mg/cm ²
	Tolerance	±0.5mg/cm ²	±0.5mg/cm ²	±3μm
Current Collector	Thickness	Al: 10~50μm, Cu: 6~25μm		
	Diameter(mm)	Ø 172~1000/Roll	Ø 172~1000/Roll	Ø 172~1000/Roll
Dimensions of Electrode roll	Weight	Max. 800kg/Roll	Max. 800kg/Roll	Max. 800kg/Roll
	Core(mm)	ID: 76~152		



Electrode	Active Material	Conducting Agent	Binder	Current Collector
Cathode	NCM / LFP / LCO / NCA / LMO	Carbon Black / Acetylene Black / VGCF / CNT	PVdF	Al / Carbon Coater Foil
Anode	Graphite / Si / LTO	Carbon Black / Acetylene Black / CNT	PVdF or CMC / SBR	Cu / Carbon Coater Foil

LITHIUM-ION CELL

*We design and manufacture premium battery cells leveraging our proprietary electrode technologies, advanced manufacturing capabilities, and industry-leading lithium-ion battery expertise.
Our diverse battery portfolio is engineered to power innovation across battery applications.*



OVER

25 YEARS

Company has more than 25 years of experience in high volume production of Lithium ion Cells

MAX.

60 Ah

Company has more than 25 years of experience in high volume production of Lithium ion Cells

CONTINUOUS

8 C-RATE

EV/ESS Application



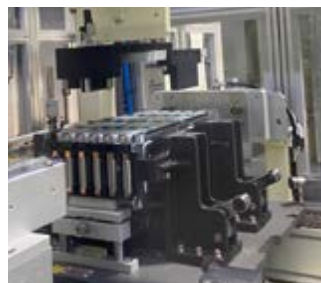
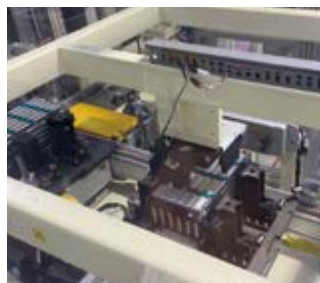
- Experienced our own Process Design and Development for batteries with different capacity
- Accumulated Design Technology through various application
- Experienced high volume production
- Automatic Production System with Automatic assembly for narrow type cell



MODULE

EnerTech International partners with you throughout the battery development lifecycle.

We deliver cells, modules, and fully integrated systems, each customized through collaborative design and precision manufacturing.



MORE THAN

3

 KINDS

Company can manufacture the modules in various cell configuration (4S3P, 6S2P, 12S1P and etc.)

MAX.

180

 Ah

EnerTech and its module with abundant capacity has max 180.0 Ah of capacity

MAX.

360

 Ah

EnerTech and its power overwhelming modules have max 360.0 Ah of discharging current



NE1800-017

Nominal Voltage(V) : 14.8V

Capacity(Ah) : 180Ah (2.664kWh)

Chemistry : NCM Energy Cell

Dimension(mm) : (L)360.0 (W)165.0 (H)109.5

Weight(kg) : 12.2kg

Temperature : Charge (-20°C~55°C)

Discharge (-20°C~55°C)

Storage (0 to 45 ≤ 3Month)

Cell Spec : ETI123100302 E60A

Cell Configuration : 4S3P

NE1200-025

Nominal Voltage(V) : 22.2V

Capacity(Ah) : 120Ah (2.698kWh)

Chemistry : NCM Power Cell

Dimension(mm) : (L)360.0 (W)165.0 (H)109.5

Weight(kg) : 12.2kg

Temperature : Charge (-20°C~55°C)

Discharge (-20°C~55°C)

Storage (0 to 45 ≤ 3Month)

Cell Spec : ETI123100302 E60A

Cell Configuration : 6S2P

NE600-050

Nominal Voltage(V) : 44.4V

Capacity(Ah) : 60Ah (2.664kWh)

Chemistry : NCM Energy Cell

Dimension(mm) : (L)360.0 (W)165.0 (H)109.5

Weight(kg) : 12kg

Temperature : Charge (-20°C~55°C)

Discharge (-20°C~55°C)

Storage (0 to 45 ≤ 3Month)

Cell Spec : ETI123100302 E60A

Cell Configuration : 12S1P

NF1200-015

Nominal Voltage(V) : 12.8V

Capacity(Ah) : 120Ah (1.536kWh)

Chemistry : LFP Cell

Dimension(mm) : (L)360.0 (W)165.0 (H)109.5

Weight(kg) : 12.2kg

Temperature : Charge (0°C~55°C)

Discharge (-20°C~55°C)

Storage (-20 to 45 ≤ 3Month)

Cell Spec : ETI123100302 F40A

Cell Configuration : 4S3P

NP900-025

Nominal Voltage(V) : 22.2V

Capacity(Ah) : 90Ah (1.998kWh)

Chemistry : NCM Power Cell

Dimension(mm) : (L)360.0 (W)165.0 (H)109.5

Weight(kg) : 12.2kg

Temperature : Charge (-20°C~55°C)

Discharge (-20°C~55°C)

Storage (-20 to 45 ≤ 3Month)

Cell Spec : ETI123100302 P45A

Cell Configuration : 6S2P

NP550-050

Nominal Voltage(V) : 44.4V

Capacity(Ah) : 55Ah (2.442kWh)

Chemistry : NCM Power Cell

Dimension(mm) : (L)360.0 (W)165.0 (H)109.5

Weight(kg) : 12.0kg

Temperature : Charge (-20°C~55°C)

Discharge (-20°C~55°C)

Storage (0 to 45 ≤ 3Month)

Cell Spec : ETI123100302 P55A

Cell Configuration : 12S1P

BATTERY PACKS

As lithium-ion transportation batteries gained commercial traction across industries, EnerTech International positioned itself at the forefront of this evolution.

Cooling & Heating

Company's battery pack has its liquid and air cooling & electrical type heating system

-20~60°C

Company and its safest packs allow you to operate your vehicle in various temperatures

BMS

Company could supply the customers' packs with in-house developed BMS



NP450-302DH

Nominal Voltage : 266.4V
Capacity : 45.0Ah (11.988kWh)
Voltage Range : 194.4V ~ 302.4V
Configuration : 72S 1P
Charging current : Continuous 22.5A Max 90A
Discharging current : Continuous 22.5A Max 180A
Dimension : (L) 938.4 x (W) 485.0 x (H) 218.0
Weight : <120kg
Temperature Management : Liquid and Electrical heater
Protection Rate : IP67

NE1800-403D

Nominal Voltage : 355.2V
Capacity (Ah) : 180.0Ah (63.936 kWh)
Voltage Range : 259.2 ~ 403.2V
Configuration : 96S 3P
Charging current : Continuous 54A, Max 180A, Peak 270A(@10sec)
Discharging current : Continuous 54A, Max 360A, Peak 540A(@60sec)
Dimension : (L) 1562.0 x (W) 1302.0 x (H) 150.0
Weight : <415kg
Temperature Management : Liquid
Protection Rate : IP68, IP69K

NE1300-403D

Nominal Voltage : 355.2V
Capacity : 130.0Ah (46.176kWh)
Voltage Range : 259.2V ~ 403.2V
Configuration : 96S 2P
Charging current : Continuous 39A Max 195A
Discharging current : Continuous 39A Max 260A Peak 390A
Dimension : (L) 1127.0 x (W) 599.0 x (H) 272.0
Weight : <255kg
Temperature Management : Liquid
Protection Rate : IP67

NE3600-806D

Nominal Voltage : 710.4V
Capacity : 360.0 Ah (255.744kWh)
Voltage Range : 518.4V ~ 806.4V
Configuration : 192S 6P
Charging current : Continuous 108A, Max 500A Peak 500A
Discharging current : Continuous 108A, Max 360A Peak 500A
Dimension : (L) 2392.0 x (W) 1200.0 x (H) 430.0
Weight : <1650kg
Temperature Management : Liquid
Protection Rate : IP67



Drone 6S 1P

Nominal Voltage : 22.2V
Capacity : 8.1Ah (179.82Wh)
Voltage Range : 16.2V ~ 25.2V
Configuration : 6S 1P
Charging current : Continuous 4.05A Max 40.5A
Discharging current : Continuous 4.05A Max 64.8A Peak 121.5A (≤20sec)
Dimension : (L) 174.0 x (W) 62.0 x (H) 52.0
Weight : <1,000g
Temperature : Charge (-20°C ~ 55°C)
 Charge (-20°C ~ 55°C)
 Storage (0°C ~ 45°C < 3months)

MBPL 3 & 4

Nominal Voltage : 10.8V
Capacity : MBPL 3: 6.8Ah (73.44Wh)
 MBPL 4: 3.4Ah (36.72Wh)
Voltage Range : 9.0V ~ 12.6V
Configuration : 3S-2P / 3S 1P
Charging current :
 MBPL 3: Continuous 2.2A Max 2.6A
 MBPL 4: Continuous 1.02A Max 2A
Discharging current :
 MBPL 3: Continuous 0.88A Max 2.2A
 MBPL 4: Continuous 0.68A Max 2.2A
Dimension : (L) 88.5 x (W) 71.0 x (H) 56.2
Weight : <430g/280g
Temperature : Charge (0°C ~ 45°C)
 Charge (-10°C ~ 60°C)
 Storage (0°C ~ 23°C < 1year)

D-700 14.4V 6.8Ah

Nominal Voltage : 14.4V
Capacity : 6.8Ah (97.92Wh)
Voltage Range : 12.0V ~ 16.8V
Configuration : 4S 2P
Charging current : Continuous 2A Max 4A
Discharging current : Continuous 5A Max 5.2A
Dimension : (L) 144.9 x (W) 91.9 x (H) 27.4
Weight : <550g
Temperature : Charge (0°C ~ 45°C)
 Charge (-10°C ~ 60°C)
 Storage (0°C ~ 23°C < 1year)
Protection Rate : IP67

AED Trainer Pack

Nominal Voltage : 10.8V
Capacity : 3.4Ah (36.72Wh)
Voltage Range : 9.0V ~ 12.6V
Configuration : 3S 1P
Charging current : Continuous 1.2A Max 2A
Discharging current : Continuous 0.68A Max 2.2A
Dimension : (L) 66.8 x (W) 56.5 x (H) 20.5
Weight : <165g
Temperature : Charge (0°C ~ 45°C)
 Charge (-10°C ~ 60°C)
 Storage (0°C ~ 23°C < 1year)
Protection Rate : IP67

ENERGY STORAGE SYSTEM

ENERTECH International's Energy Storage System (ESS) delivers cost-effective, long-duration energy storage engineered for grid stability and power management. Ensuring superior performance, reliability and optimization for various types of energy storage.

Scalable

Company can expand its ESS as much as the customer needs with standard battery module

Flexible

Depending on the customers' purpose, the whole system is designed and veteran engineers are ready and awaiting

Reliable

IATF 16949 certified product has no quality problem at field that lasts 10 years

HOME ESS_LFP

Battery Pack Specification

Voltage : Nominal 51.0V
Capacity : 240Ah (12.28kWh)
Configuration : 16S 6P
Voltage Range : 40.0V ~ 58.4V
Charging Voltage : 58.4V
Charging Current : Continuous 48A
Discharging Current : Continuous 48A
IP Rate : IP54
Dimension (mm) : (W) 500.0 x (D) 500.0 x (H) 800.0



KILO ESS RACK

Battery Rack Specification

Voltage : Nominal 828.8V (604.8V ~ 940.8V)
Capacity : 180Ah (149.18 kWh / String)
Configuration : 224S 3P
Charging Voltage : 940.8V
Charging Current : Continuous 45A Max 90A
Discharging Current : Continuous 45A Max 90A

Kilo System Specification

Capacity : 149.18kWh / Panel
PCS : Included in the Panel
IP Rate : IP54
Dimension : (W) 1,624 x (D) 1,022 x (H) 2,500
Weight : <1,500kg



MEGA ESS

Battery Rack Specification

Voltage : Nominal 1,243.2V (907.2V ~ 1,411.2V)
Capacity : 180Ah (223.78kWh / String)
Configuration : 336S 3P
Charging Voltage : 1,411.2V
Charging Current : Continuous 45A Max 90A
Discharging Current : Continuous 45A Max 90A

Bank Container Specification

Capacity : 1.11MWh (223.78kWh * 5 Strings) / Container
Weight : Approx. 9.5 ~ 10 Ton
IP Rate : IP54
Dimension : (W) 2,438 x (D) 3,050 x (H) 2,896



40ft Container ESS

Battery Rack Specification

Voltage : Nominal 1,243.2V (907.2V ~ 1,411.2V)
Capacity : 180Ah (223.78kWh / String)
Configuration : 336S 3P
Charging Voltage : 1,411.2V
Charging Current : Continuous 45A Max 90A
Discharging Current : Continuous 45A Max 90A

Bank Container Specification

Capacity : 4.92MWh (223.78kWh * 22 Racks) / Container
IP Rate : IP54
Dimension (mm) : (W) 2,438 x (D) 12,192 x (H) 2,896



MOBILE ESS

Battery Pack Specification

Voltage : Nominal 828.8V (604.8V ~ 940.8V)
Capacity : 180Ah (149.18kWh/String)
Configuration : 224S 3P
Charging Voltage : 940.8V
Charging Current : Continuous 45A Max 90A
Discharging Current : Continuous 45A Max 90A

All-in-one Container Specification

Capacity : 596.73kWh (149.18kWh * 4 String)
PCS : 200kW (Power Stack X 2EA)
Dimension (mm) : (W) 2,450 x (D) 5,900 x (H) 2,900



UPS

Drawer Specification

Voltage : Nominal 66.6V
Capacity : 90Ah (5.99kWh)
Configuration : 18S 2P

UPS Battery Specification

Voltage : Nominal 666.0V (486.0V ~ 756.0V)
Capacity : 90Ah (59.94kWh)
Configuration : 180S 2P(10 Drawer/1Rack)
Charging Voltage : 756.0V
Charging Current : Continuous 45A Max 180A
Discharging Current : Continuous 45A Max 450A Peak 660A @60sec
Dimension (mm) : (W) 600 x (D) 1,000 x (H) 2,000
Weight : Approx. 650kg



R&D CENTER TESTING SERVICE

HOW WE CAN HELP

Enertech International Inc. provides professional battery pack, module and cell performance testing in our R&D center.

We create precise simulation of electrical, thermal or climatic loads and other conditions that your batteries may be exposed to in real-life use. As an expert in battery performance testing, we can support throughout the development and manufacturing process to optimize the capacity, reliability and safety of battery packs, cells and modules.

With lithium battery expertise and over 20 years' experience of the requirements and test methods of vehicle manufacturers, we can meet all your battery testing needs.



Product Evaluation
(Electrode, Cell, Module and Pack)



Sample Production
(Module & Pack)



BMS Evaluation
(Performance & Accuracy)



Sample Production
(Electrode & Cell)

ENERTECH™



Reliability Test
(Customer Demands & UN DOT)

Service Availability

Item	Availability	Test Items	Test Condition
Sample Production	Electrode, Cell, Module & Battery System		
Cell Evaluation	Short Term Test	- Temp Rate Capability - HPPC - OCV Data - Temp Rate Cycle life	- Temp : 0°C, 25°C, 45°C - Charge, Discharge : Requirement - Cycle life : over 1,000cycle
	Long Term Test		
Module Evaluation	BMA Performance	- Temp Rate Capability - Heat Generation	- Temp : 0°C, 25°C, 45°C - Charge, Discharge : Requirement
Pack Evaluation	BSA Performance	- Temp Rate Capability - Cooling performance - Profile	- Temp : 0°C, 25°C, 45°C - Charge, Discharge : Requirement - Driving Data(Power/Time)
BMS Validation	BMS	- Protection - SOC, SOH Accuracy	- Protection operation - Temp : 0°C, 25°C, 45°C - Charge, Discharge : Requirement
Reuse Evaluation	Reuse	DCIR, SOH	- Temp : 0°C, 25°C, 45°C - Charge, Discharge : Requirement - DCIR calculation
Small Pack/Module/DOT	UN38.3 Test	UNDOT	- T1~T8 - Altitude Simulation, - Thermal, Humidity, Vibration, Shock Test - External Short Circuit, Crush - Forced Discharge, Cold Plate
Reliability Test	Reuse	- Environment Test - Machinery Test - Safety Test	

Power Cell

Item		SPB8060155V2	ETI123100302 P40A	ETI123100302 P45A	ETI123100302 P55A
Nominal Capacity		8.1Ah	40.0 Ah	45.0 Ah	55.0 Ah
Energy Density	Volumetric	403 Wh/ℓ	398 Wh/ℓ	448 Wh/ℓ	548 Wh/ℓ
	Gravimetric	200 Wh/kg	180 Wh/kg	204 Wh/kg	248 Wh/kg
Weight		152 ± 2.0 g	≤ 820 g	815 ± 5 g	≤ 820 g
Nominal Voltage		3.70V	3.70V	3.70V	3.70V
Operating Voltage Range	Max.	4.20 V	4.20 V	4.20 V	4.20 V
	Min.	2.70 V	2.70 V	2.70 V	2.70 V
Standard Current	Charge	4.05 A	20.0 A	22.5 A	27.5 A
	Discharge	4.05 A	20.0 A	22.5 A	27.5 A
Maximum Current	Charge	40.5 A	320.0 A	135.0 A	110.0 A
	Discharge	64.8 A	320.0 A	225.0 A	220.0 A
	Peak Discharge	121.5 A (< 10s)	400.0A (@10s)	495.0A (@5s)	495.0A (@5s)
Internal Resistance		< 3.0mΩ	< 1.5mΩ	< 1.5mΩ	< 1.0mΩ
Operating Temperature	Charge	-20°C ~ 55°C	-30°C ~ 60°C	-30°C ~ 60°C	-30°C ~ 60°C
	Discharge	-20°C ~ 55°C	-30°C ~ 60°C	-40°C ~ 60°C	-30°C ~ 60°C
	Recommend	25 ± 3°C	25 ± 3°C	25 ± 3°C	25 ± 3°C
Storage Temperature	< 1 month	-20°C ~ 55°C	-40°C ~ 60°C	-40°C ~ 60°C	-40°C ~ 60°C
	< 1 year	0°C ~ 25°C	0°C ~ 25°C	-20°C ~ 25°C	0°C ~ 25°C
Storage Humidity		45 ~ 85%RH	Max. 60%RH	Max. 60%RH	Max. 60%RH
Cell Dimensions	Thickness	8.0mm +0.0 / -0.6mm	12.3mm ± 0.2mm	12.3mm ± 0.2mm	12.3mm ± 0.2mm
	Width	60.0mm +1.0 / -2.0mm	100mm -0.5 / +1.5mm	100mm -0.5 / +1.5mm	100mm -0.5 / +1.5mm
	Length	155.0mm +2.0 / -1.0mm	302mm ± 1mm	302mm ± 1mm	302mm ± 1mm
Technical Data					

Energy Cell

Item		SPB70115145V1	ETI123100302 E60A	ETI123100302 E59A
Nominal Capacity		12.0 Ah	60.0 Ah	58.0 Ah
Energy Density	Volumetric	380 Wh/ℓ	598 Wh/ℓ	577 Wh/ℓ
	Gravimetric	185 Wh/kg	262 Wh/kg	261 Wh/kg
Weight		≤ 240 g	845.0 g +5 g/-20 g	820 ± 10 g
Nominal Voltage		3.70 V	3.70 V	3.70 V
Operating Voltage Range	Max.	4.20 V	4.20 V	4.10 V
	Min.	3.00 V	2.70 V	3.00 V
Standard Current	Charge	6.0 A	18.0 A	17.4 A
	Discharge	6.0 A	18.0 A	17.4 A
Maximum Current	Charge	12.0 A	90.0 A	87.0 A
	Discharge	24.0 A	120.0 A	116.0 A
	Peak Discharge	-	180.0 A (< 60s)	174.0 A (< 60s)
Internal Resistance		< 3.0mΩ	< 1.5mΩ	< 1.5mΩ
Operating Temperature	Charge	0°C ~ 45°C	-30°C ~ 60°C	-30°C ~ 60°C
	Discharge	-20°C ~ 55°C	-30°C ~ 60°C	-30°C ~ 60°C
	Recommend	25 ± 3°C	25 ± 3°C	25 ± 3°C
Storage Temperature	< 1 month	-20°C ~ 55°C	-40°C ~ 60°C	-40°C ~ 60°C
	< 1 year	0°C ~ 25°C	0°C ~ 25°C	-0°C ~ 25°C
Storage Humidity		45 ~ 85%RH	Max. 60%RH	Max. 60%RH
Cell Dimensions	Thickness	7.0mm + 0.0/- 0.5mm	12.3mm ± 0.2mm	12.3mm ± 0.2mm
	Width	115mm ± 2mm	100mm -0.5 / +1.5mm	100mm -0.5 / +1.5mm
	Length	145mm ± 2mm	302mm ± 1mm	302mm ± 1mm
Technical Data				

LFP Cell

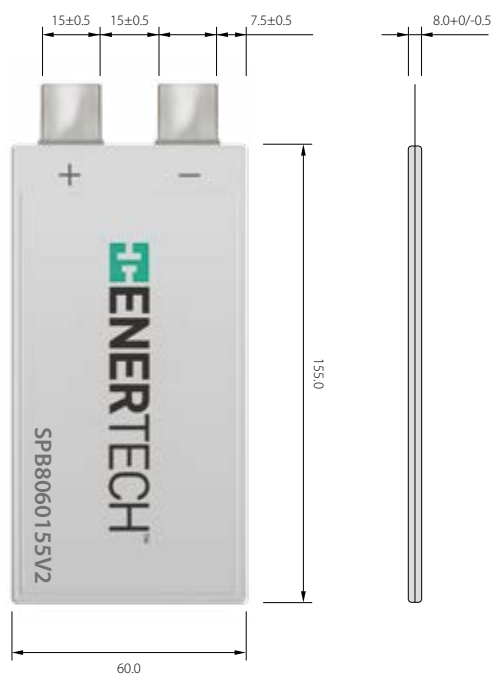
Item		ETI123100302 F40A	ETI123100302 M40A
Nominal Capacity		40.0 Ah	40.0 Ah
Energy Density	Volumetric	345 Wh/ℓ	398 Wh/ℓ
	Gravimetric	170 Wh/kg	185 Wh/kg
Weight		755 ± 5 g	≤ 800 g
Nominal Voltage		3.20 V	3.70 V
Operating Voltage Range	Max.	3.65 V	4.20 V
	Min.	2.50 V	2.50 V
Standard Current	Charge	12.0 A	12.0 A
	Discharge	12.0 A	12.0 A
Maximum Current	Charge	40.0 A	40.0 A
	Discharge	120.0 A	120.0 A
	Peak Discharge	400.0A (< 10s)	200.0A (< 10s)
Internal Resistance		< 1.5mΩ	< 1.5mΩ
Operating Temperature	Charge	0°C ~ 60°C	0°C ~ 60°C
	Discharge	-30°C ~ 60°C	-30°C ~ 60°C
	Recommend	25 ± 3°C	25 ± 3°C
Storage Temperature	< 1 month	-40°C ~ 60°C	-40°C ~ 60°C
	< 1 year	-20°C ~ 25°C	0°C ~ 25°C
Storage Humidity		Max. 60%RH	Max. 60%RH
Cell Dimensions	Thickness	12.3mm ± 0.2mm	12.3mm ± 0.2mm
	Width	100mm -0.5 / +1.5mm	100mm -0.5 / +1.5mm
	Length	302mm ± 1mm	302mm ± 1mm
Technical Data			

LTO Cell

Item		ETI123100302 T35A
Nominal Capacity		35.0 Ah
Energy Density	Volumetric	217 Wh/ℓ
	Gravimetric	95 Wh/kg
Weight		≤ 850 g
Nominal Voltage		2.30 V
Operating Voltage Range	Max.	2.90 V
	Min.	1.50 V
Standard Current	Charge	17.5 A
	Discharge	17.5 A
Maximum Current	Charge	140.0 A
	Discharge	210.0 A
	Peak Discharge	490.0 A (< 10s)
Internal Resistance		< 2.0mΩ
Operating Temperature	Charge	-30°C ~ 60°C
	Discharge	-30°C ~ 60°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-40°C ~ 60°C
	< 1 year	-20°C ~ 25°C
Storage Humidity		Max. 60%RH
Cell Dimensions	Thickness	12.3mm ± 0.2mm
	Width	100mm -0.5 / +1.5mm
	Length	302mm ± 1mm
Technical Data		

Power Cell

SPB8060155V2



Item		SPB8060155V2
Nominal Capacity		8.1 Ah
Energy Density	Volumetric	403 Wh/ℓ
	Gravimetric	200 Wh/kg
Weight		152 ± 2.0 g
Nominal Voltage		3.70 V
Operating Voltage Range	Max.	4.20 V
	Min.	2.70 V
Standard Current	Charge	4.05 A
	Discharge	4.05 A
Maximum Current	Charge	40.5 A
	Discharge	64.8 A
	Peak Discharge	121.5 A (< 10s)
Internal Resistance		< 3.0mΩ
Operating Temperature	Charge	-20°C ~ 55°C
	Discharge	-20°C ~ 55°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-20°C ~ 55°C
	< 1 year	0°C ~ 25°C
Storage Humidity		45 ~ 85%RH
Cell Dimensions	Thickness	8.0mm +0.0 / -0.6mm
	Width	60.0mm +1.0 / -2.0mm
	Length	155.0mm +2.0 / -1.0mm

Power Cell

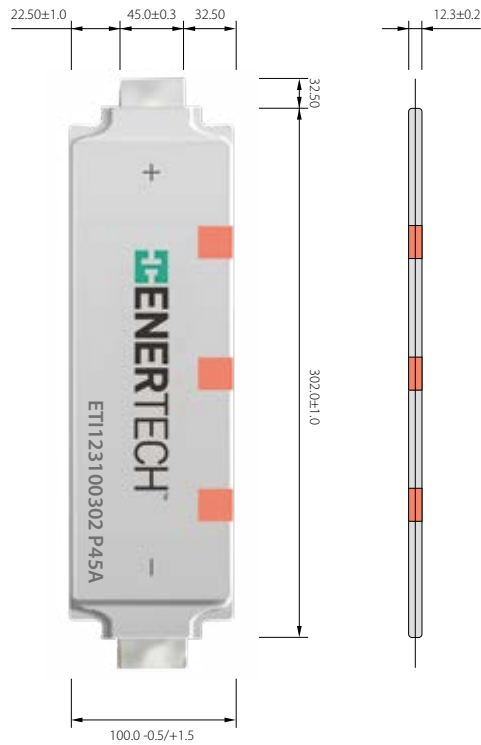
ETI123100302 P40A



Item		ETI123100302 P40A
Nominal Capacity		40.0 Ah
Energy Density	Volumetric	398 Wh/ℓ
	Gravimetric	180 Wh/kg
Weight		≤ 820 g
Nominal Voltage		3.70 V
Operating Voltage Range	Max.	4.20 V
	Min.	2.70 V
Standard Current	Charge	20.0 A
	Discharge	20.0 A
Maximum Current	Charge	320.0 A
	Discharge	320.0 A
	Peak Discharge	400.0 A (@ 10s)
Internal Resistance		< 1.5mΩ
Operating Temperature	Charge	-30°C ~ 60°C
	Discharge	-30°C ~ 60°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-40°C ~ 60°C
	< 1 year	0°C ~ 25°C
Storage Humidity		Max. 60%RH
Cell Dimensions	Thickness	12.3mm ± 0.2mm
	Width	100mm -0.5 / +1.5mm
	Length	302mm ± 1.0mm

Power Cell

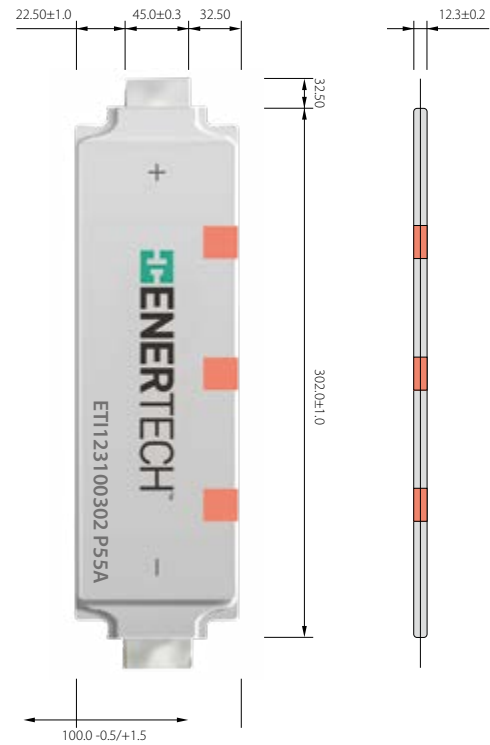
ETI123100302 P45A



Item		ETI123100302 P45A
Nominal Capacity		45.0 Ah
Energy Density	Volumetric	448 Wh/ℓ
	Gravimetric	204 Wh/kg
Weight		815 ± 5.0 g
Nominal Voltage		3.70 V
Operating Voltage Range	Max.	4.20 V
	Min.	2.70 V
Standard Current	Charge	22.5 A
	Discharge	22.5 A
Maximum Current	Charge	135.0 A
	Discharge	225.0 A
	Peak Discharge	495.0 A (@5s)
Internal Resistance		< 1.5mΩ
Operating Temperature	Charge	-30°C ~ 60°C
	Discharge	-40°C ~ 60°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-40°C ~ 60°C
	< 1 year	-20°C ~ 25°C
Storage Humidity		Max. 60%RH
Cell Dimensions	Thickness	12.3mm ± 0.2mm
	Width	100mm -0.5 / +1.5mm
	Length	302mm ± 1.0mm

Power Cell

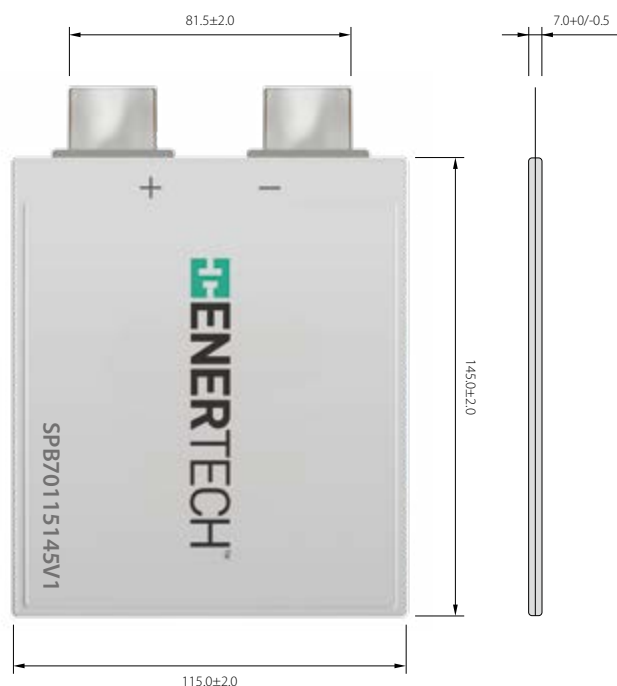
ETI123100302 P55A



Item		ETI123100302 P55A
Nominal Capacity		55.0 Ah
Energy Density	Volumetric	548 Wh/ℓ
	Gravimetric	248 Wh/kg
Weight		≤ 820 g
Nominal Voltage		3.70 V
Operating Voltage Range	Max.	4.20 V
	Min.	2.70 V
Standard Current	Charge	27.5 A
	Discharge	27.5 A
Maximum Current	Charge	110.0 A
	Discharge	220.0 A
	Peak Discharge	495.0 A (@5s)
Internal Resistance		< 1.0mΩ
Operating Temperature	Charge	-30°C ~ 60°C
	Discharge	-30°C ~ 60°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-40°C ~ 60°C
	< 1 year	0°C ~ 25°C
Storage Humidity		Max. 60%RH
Cell Dimensions	Thickness	12.3mm ± 0.2mm
	Width	100mm -0.5 / +1.5mm
	Length	302mm ± 1.0mm

Energy Cell

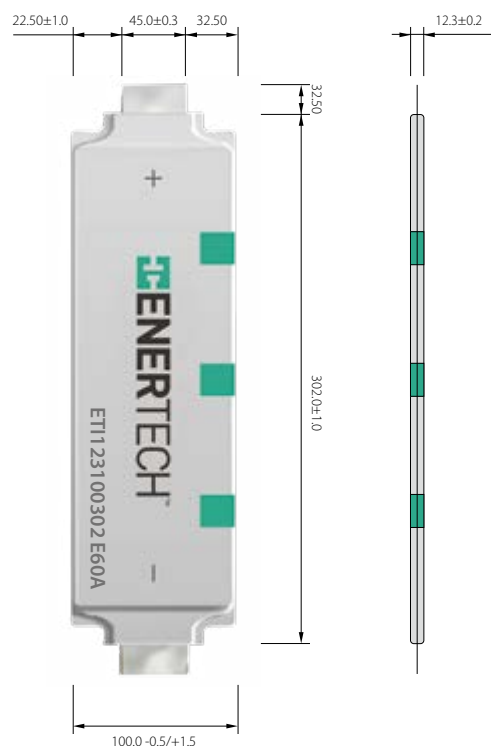
SPB70115145V1



Item		SPB70115145V1
Nominal Capacity		12.0 Ah
Energy Density	Volumetric	380 Wh/ℓ
	Gravimetric	185 Wh/kg
Weight		≤ 240 g
Nominal Voltage		3.70 V
Operating Voltage Range	Max.	4.20 V
	Min.	3.00 V
Standard Current	Charge	6.0 A
	Discharge	6.0 A
Maximum Current	Charge	12.0 A
	Discharge	24.0 A
	Peak Discharge	-
Internal Resistance		< 3.0mΩ
Operating Temperature	Charge	0°C ~ 45°C
	Discharge	-20°C ~ 55°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-20°C ~ 55°C
	< 1 year	0°C ~ 25°C
Storage Humidity		45 ~ 85%RH
Cell Dimensions	Thickness	7.0mm +0.0 / -0.5mm
	Width	115mm ± 2.0mm
	Length	145mm ± 2.0mm

Energy Cell

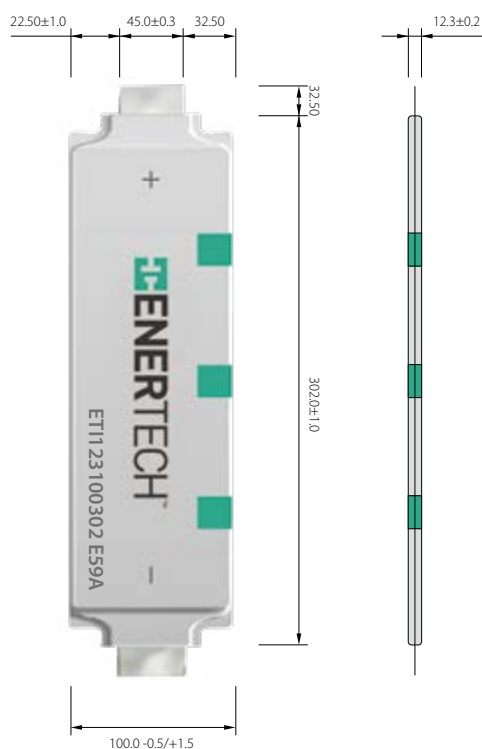
ETI123100302 E60A



Item		ETI123100302 E60A
Nominal Capacity		60.0 Ah
Energy Density	Volumetric	598 Wh/ℓ
	Gravimetric	262 Wh/kg
Weight		845.0g +5 g / -20 g
Nominal Voltage		3.70 V
Operating Voltage Range	Max.	4.20 V
	Min.	2.70 V
Standard Current	Charge	18.0 A
	Discharge	18.0 A
Maximum Current	Charge	90.0 A
	Discharge	120.0 A
	Peak Discharge	180.0 A (< 60s)
Internal Resistance		< 1.5mΩ
Operating Temperature	Charge	-30°C ~ 60°C
	Discharge	-30°C ~ 60°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-40°C ~ 60°C
	< 1 year	0°C ~ 25°C
Storage Humidity		Max. 60%RH
Cell Dimensions	Thickness	12.3mm ± 0.2mm
	Width	100mm -0.5 / +1.5mm
	Length	302mm ± 1.0mm

Energy Cell

ETI123100302 E59A



Item		ETI123100302 E59A
Nominal Capacity		58.0 Ah
Energy Density	Volumetric	577 Wh/ℓ
	Gravimetric	261 Wh/kg
Weight		820 ± 10 g
Nominal Voltage		3.70 V
Operating Voltage Range	Max.	4.10 V
	Min.	3.00 V
Standard Current	Charge	17.4 A
	Discharge	17.4 A
Maximum Current	Charge	87.0 A
	Discharge	116.0 A
	Peak Discharge	174.0 A (< 60s)
Internal Resistance		< 1.5mΩ
Operating Temperature	Charge	-30°C ~ 60°C
	Discharge	-30°C ~ 60°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-40°C ~ 60°C
	< 1 year	0°C ~ 25°C
Storage Humidity		Max. 60%RH
Cell Dimensions	Thickness	12.3mm ± 0.2mm
	Width	100mm -0.5 / +1.5mm
	Length	302mm ± 1.0mm

LTO Cell

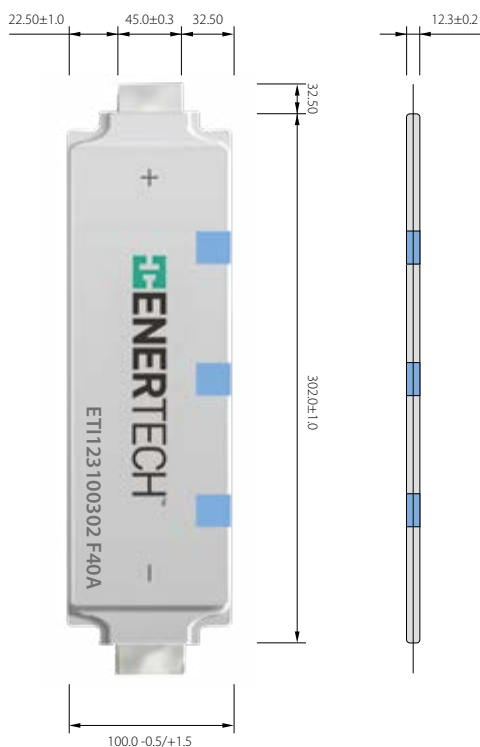
ETI123100302 T35A



Item		ETI123100302 T35A
Nominal Capacity		35.0 Ah
Energy Density	Volumetric	217 Wh/ℓ
	Gravimetric	95 Wh/kg
Weight		≤ 850 g
Nominal Voltage		2.30 V
Operating Voltage Range	Max.	2.90 V
	Min.	1.50 V
Standard Current	Charge	17.5 A
	Discharge	17.5 A
Maximum Current	Charge	140.0 A
	Discharge	210.0 A
	Peak Discharge	490.0 A (< 10s)
Internal Resistance		< 2.0mΩ
Operating Temperature	Charge	-30°C ~ 60°C
	Discharge	-30°C ~ 60°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-40°C ~ 60°C
	< 1 year	-20°C ~ 25°C
Storage Humidity		Max. 60%RH
Cell Dimensions	Thickness	12.3mm ± 0.2mm
	Width	100mm -0.5 / +1.5mm
	Length	302mm ± 1.0mm

LFP Cell

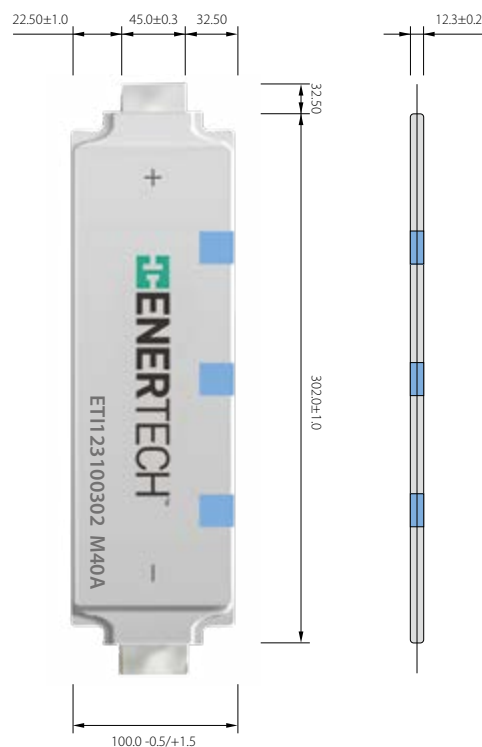
ETI123100302 F40A



Item		ETI123100302 F40A
Nominal Capacity		40.0 Ah
Energy Density	Volumetric	345 Wh/ℓ
	Gravimetric	170 Wh/kg
Weight		755 ± 5 g
Nominal Voltage		3.20 V
Operating Voltage Range	Max.	3.65 V
	Min.	2.50 V
Standard Current	Charge	12.0 A
	Discharge	12.0 A
Maximum Current	Charge	40.0 A
	Discharge	120.0 A
	Peak Discharge	400.0 A (< 10s)
Internal Resistance		< 1.5mΩ
Operating Temperature	Charge	0°C ~ 60°C
	Discharge	-30°C ~ 60°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-40°C ~ 60°C
	< 1 year	-20°C ~ 25°C
Storage Humidity		Max. 60%RH
Cell Dimensions	Thickness	12.3mm ± 0.2mm
	Width	100mm -0.5 / +1.5mm
	Length	302mm ± 1.0mm

LFP Cell

ETI123100302 M40A



Item		ETI123100302 M40A
Nominal Capacity		40.0 Ah
Energy Density	Volumetric	398 Wh/ℓ
	Gravimetric	185 Wh/kg
Weight		≤ 800 g
Nominal Voltage		3.70 V
Operating Voltage Range	Max.	4.20 V
	Min.	2.50 V
Standard Current	Charge	12.0 A
	Discharge	12.0 A
Maximum Current	Charge	40.0 A
	Discharge	120.0 A
	Peak Discharge	200.0 A (< 10s)
Internal Resistance		< 1.5mΩ
Operating Temperature	Charge	0°C ~ 60°C
	Discharge	-30°C ~ 60°C
	Recommend	25 ± 3°C
Storage Temperature	< 1 month	-40°C ~ 60°C
	< 1 year	0°C ~ 25°C
Storage Humidity		Max. 60%RH
Cell Dimensions	Thickness	12.3mm ± 0.2mm
	Width	100mm -0.5 / +1.5mm
	Length	302mm ± 1.0mm

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