



UN38.3



BATTERY ASIA (THAILAND)

# Traction Lithium-ion Batteries

# PRODUCT STRENGTH



# WHY EKT?

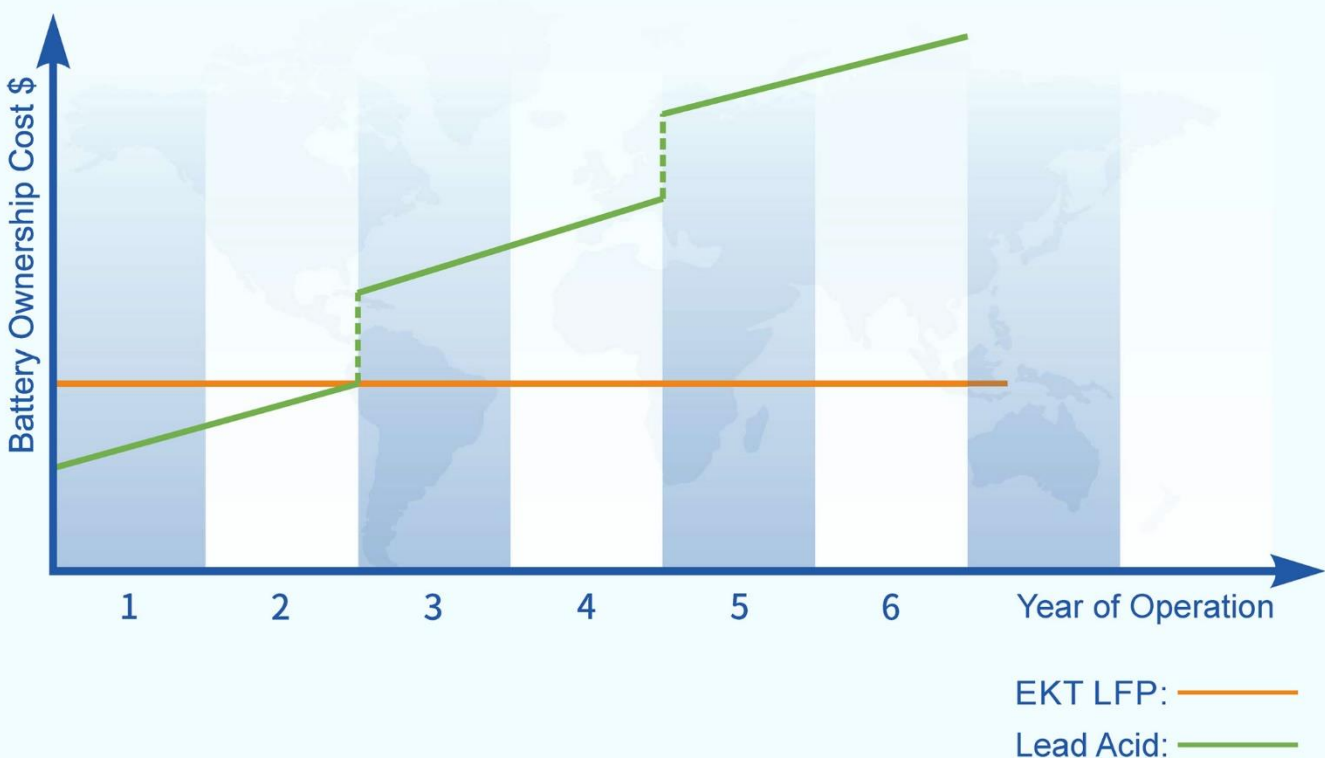
	Flooded Lead-Acid	EKT's LFP Lithium
Cycle Life	1200	6000
Maintenance	Monthly	Yearly
Charging Hours	6 - 8 Hours	2 Hours (Minimum)
Oppurtunity Charging	Memory Effect and Heat	No Effect
Over-Dischage	Overheat	Protection from BMS
Energy Conversion Efficiency <sup>(1)</sup>	Average 85%	Average 98%
Charging Room with Ventilation	Requirly	Anywhere
Telematics <sup>(2)</sup>	Optional	Standard

(1) EKT unique traction lithium cell can endure continous high current while generating very less heat if compared with lead-acid

(2) Telematics is standard for full range of traction batteries from EKT

## Simulation of Battery Ownership Cost

Based on 1 x equipment with 1 x battery for 6 years of operation



# CELL DESIGN



<b>Model</b>	52145405
<b>Capacity</b>	205AH 220AH 270AH 280AH
<b>Cycle</b>	25°C 3500 Cycles
<b>Application</b>	Traction , Energy Storage

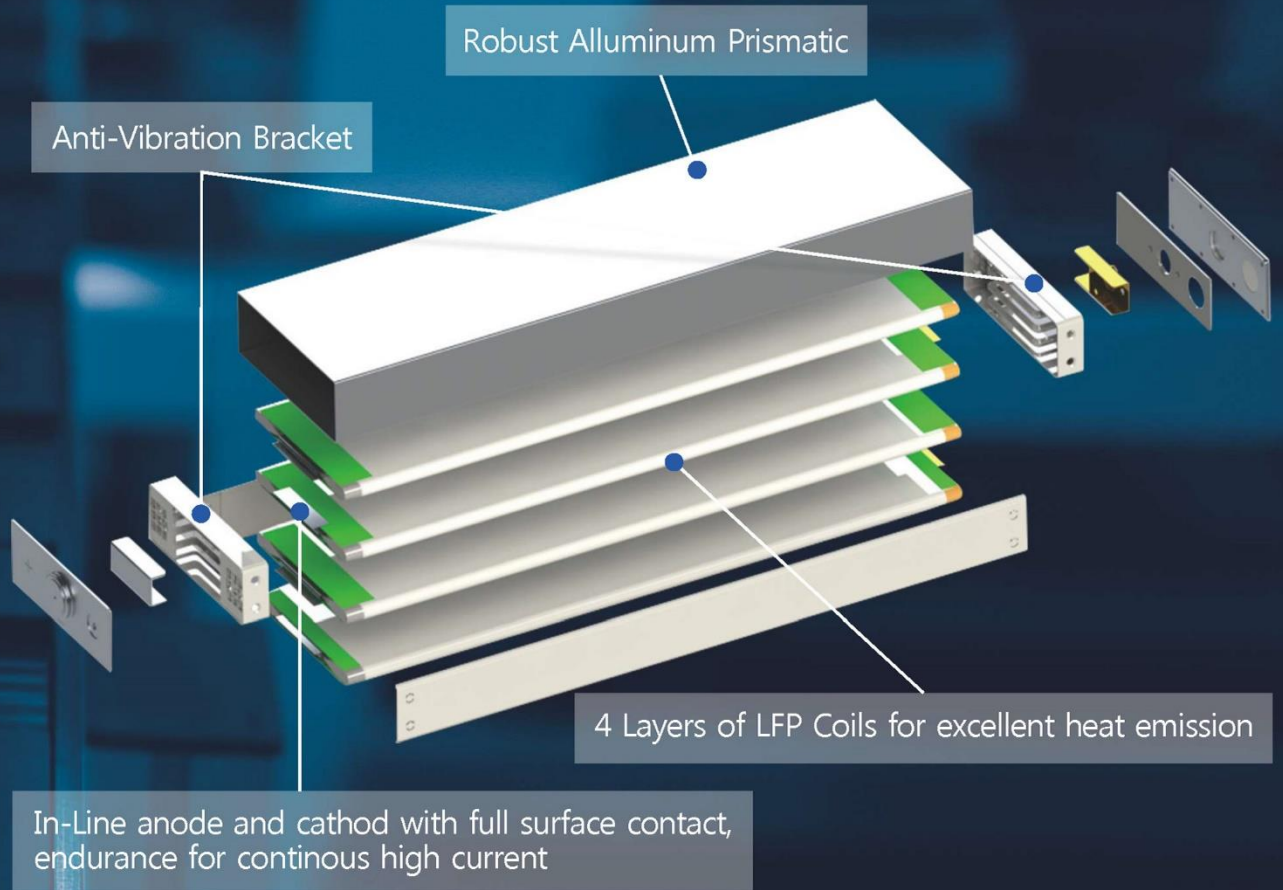


<b>Model</b>	40110413
<b>Capacity</b>	135AH 150AH 175AH
<b>Cycle</b>	25°C 3500 Cycles
<b>Application</b>	Traction , Energy Storage



<b>Model</b>	19124133
<b>Capacity</b>	25AH 28AH 30AH
<b>Cycle</b>	25°C 3000 Cycles
<b>Application</b>	Traction , Energy Storage

## UNIQUE STRUCTURE FOR HEAVY-DUTY TRACTION



Designed for traction, reduced energy density for higher cycle-life.



CCS certified for marine application.



Super Shock Resistance



Certified by TUV according to IEC62619

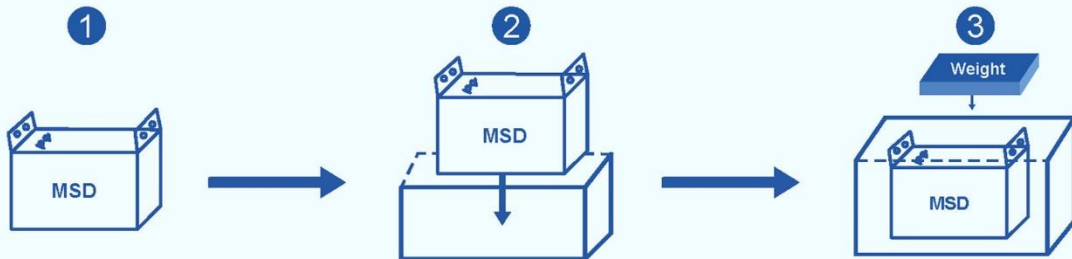


Tolerance of continuous high peak current



150AH cell certified according to UL2580

# MSD TRACTION BATTERY



**MSDA1,MSDA2**



**MSDC1, MSDC3**



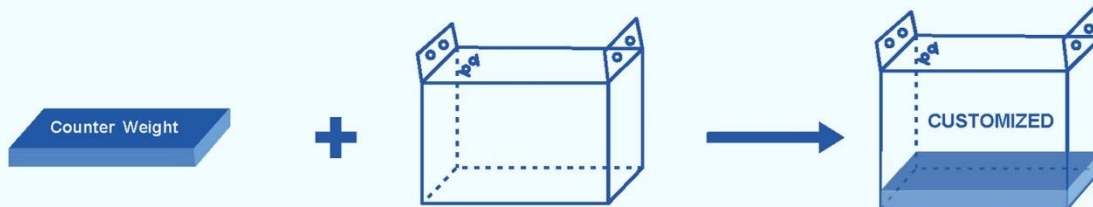
**MSDC2, MSDC4**



**MSDC5,MSDC7**



# CUSTOMIZED TRACTION BATTERY



**RX60**



**EFG**



**T20AP**



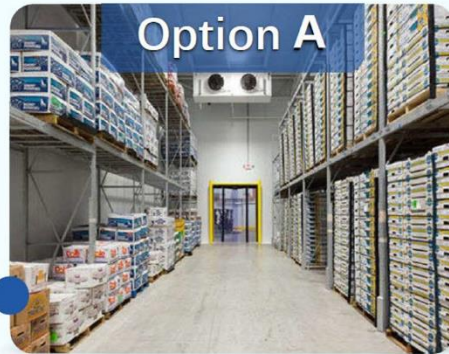
**FB25**



# COLD STORAGE OPTION ❄️



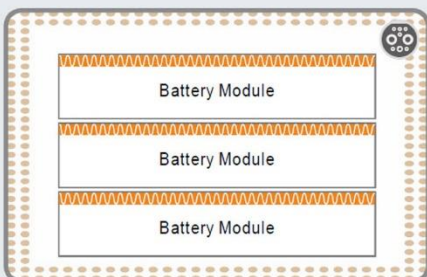
- Cold Storage: -20°C~0°C
- Behavior: In and out



- Cold Storage: -20°C~0°C
- Behavior: inside cold-storage during complete shift



- Cold Storage: -45°C~-20°C



Eva Insulation Inside Tray



Heater Inside Battery Module



Water-Proof Charging Port



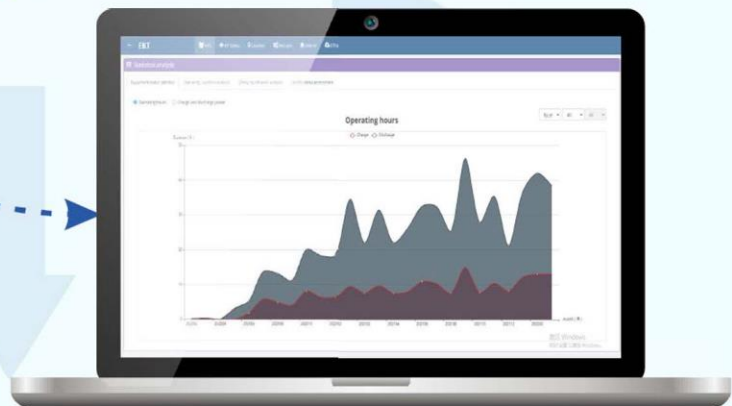
# TELEMATICS AND CLOUD PLATFORM

## Web Based Cloud System

- Diagnose And Re-setting Over Distance
- Battery Fleet Management



Web Portal



Real-time Status And History Of Battery Operation

## Mobile Terminal

- Every Battery Comes With QR Code With Which Customers Can Track Battery Status From Mobile Phone
- Real Time Monitor Over Cell Phone
- Operation Data Analysis

Date Time	Duration	SOC
2023-03-06 15:48:09	35min	58.1% - 65.2%
2023-03-06 12:08:31	188min	79.5% - 58.1%
2023-03-06 11:07:45	61min	22.1% - 79.5%
2023-03-06 09:27:47	99min	37.1% - 22.1%
2023-03-06 09:20:39	6min	32.0% - 37.1%
2023-03-06 04:58:32	262min	68.1% - 32.5%
2023-03-06 04:20:56	29min	48.1% - 68.1%
2023-03-05 22:57:58	331min	100% - 48.1%
2023-03-05 21:56:11	47min	67.5% - 100%
2023-03-05 19:06:53	169min	89% - 67.5%
2023-03-05 16:14:34	60min	89.1% - 89.1%
2023-03-05 12:32:15	73min	91% - 89.2%
2023-03-05 07:04:33	55min	91% - 91%
2023-03-05 03:45:23	58min	91% - 91%
2023-03-04 21:27:51	3min	91.2% - 91%

Battery History



Realtime Status

## MAIN PRODUCT RANGE

25.6V SYSTEM	38.4V SYSTEM	51.2V SYSTEM	76.8V SYSTEM	83.2V SYSTEM
25.6V / 30AH	38.4V / 150AH	51.2V / 60AH	76.8V / 270AH	83.2V / 270AH
25.6V / 60AH	38.4V / 270AH	51.2V / 90AH	76.8V / 300AH	83.2V / 300AH
25.6V / 135AH	38.4V / 300AH	51.2V / 120AH	76.8V / 350AH	83.2V / 350AH
25.6V / 150AH	38.4V / 350AH	51.2V / 150AH	76.8V / 405AH	83.2V / 405AH
25.6V / 175AH	38.4V / 405AH	51.2V / 210AH	76.8V / 450AH	83.2V / 450AH
25.6V / 270AH	38.4V / 450AH	51.2V / 270AH	76.8V / 525AH	83.2V / 525AH
25.6V / 300AH	38.4V / 525AH	51.2V / 300AH	76.8V / 600AH	83.2V / 600AH
25.6V / 350AH	38.4V / 600AH	51.2V / 350AH	76.8V / 700AH	83.2V / 700AH
25.6V / 405AH	38.4V / 700AH	51.2V / 405AH		
25.6V / 450AH		51.2V / 450AH		
25.6V / 600AH		51.2V / 525AH		
25.6V / 700AH		51.2V / 560AH		
		51.2V / 600AH		
		51.2V / 700AH		

### BATTERY ASIA (THAILAND) CO.,LTD.



609 Rama2 Road, Samaedam, Bangkhuntien,  
Bangkok 10150 Thailand



info@batteryasia.co.th



www.batteryasia.co.th