

# THINPACK

Leading battery  
solutions provider



# LITHIUM BATTERY FOR LOW SPEED VEHICLE



Model	L004	L005	
Nominal voltage	48.1V	59.8V	
Configuration	13S4P	26S7P	
Nominal capacity	84Ah	98Ah	
Nominal energy	4.04Kwh	5.86Kwh	@25 C , ±5%
Max constant charging current / full charging time	40A (within 2hours)	200A(within 30mins)	
Max constant discharging current	100A	200A	SOC: 20%~95%
Discharge Cut-off Voltage	36.4V	46.8V	customized
Upper cut-off voltage	54.6V	72.8V	
Peak discharge Current	200A	400A	
System Weight	~30Kg	~75Kg	
BMS in built	yes	yes	
Bluetooth function	optional	optional	
GPS function	optional	optional	
CAN bus	optional	optional	
Life cycle	3000times	10000times	
Dimension (mm)	230*178*440	880*390*252	@standard working state.
Case materials	Al	Steel	80%DOD

## APPLICATION SCENARIOS



■ All terrain vehicle



■ Golf Cart



■ Sightseeing Car

Remark: We can provide customized service for the whole system.

# 48V LITHIUM BATTERY SYSTEM FOR AGV



Model	A002	A001
Nominal voltage	48.3	48.1
Configuration	21S2P	13S1P
Nominal capacity	28Ah	21Ah
Nominal energy	2.31kwh	1.01Kwh
constant charging current	100A	10A
constant discharging current	100A	40A
Discharge Cut-off Vol	58.8	54.6
Upper cut-off vol	37.8	36.4
Peak discharge Current	300A	100A
System Weight	25Kg	8.5Kg
BMS in built	yes	yes
CAN bus	optional	optional
Life cycle	10000	3000
Dimension	497*170*152	230*178*179
Case type	Steel	Al

## APPLICATION SCENARIOS



■ AGV application



■ AGV application



■ AGV application

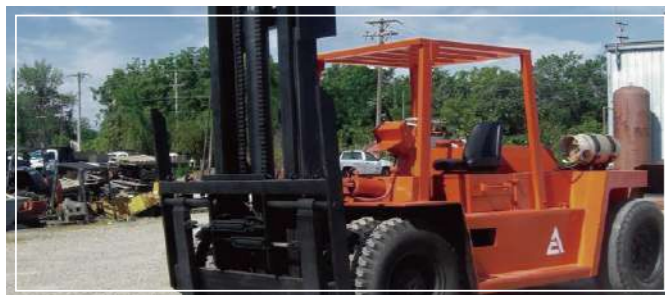
Remark: We can provide customized service for the whole system.

# 48V480AH LITHIUM BATTERY SYSTEM FOR FORKLIFT



		F023	F003	
Discharge data	Nominal voltage	50.4V	25.3V	
	Nominal capacity	480Ah	120Ah	@25°C, ±5%
	Voltage working range	35~58.8V	18.7~30.8	
	Max constant charging current	250A	240A	
	Max peak charging current (10s)	600A	500A	
Charging data	Nominal voltage	100.8V	25.3V	
	Nominal capacity	240Ah	120Ah	
	Voltage working range	70~117.6	18.7~30.8	
	Max constant charging current	400A	360A	Customized.
Nominal energy (Kwh)		23.8Kwh	3.03Kwh	
Weight (kg)		856kg	355kg	
Dimension (mm)		825*625*625	823*313*630	
Life cycle		5000times	20000 times	@standard working state. 80%DOD

## APPLICATION SCENARIOS



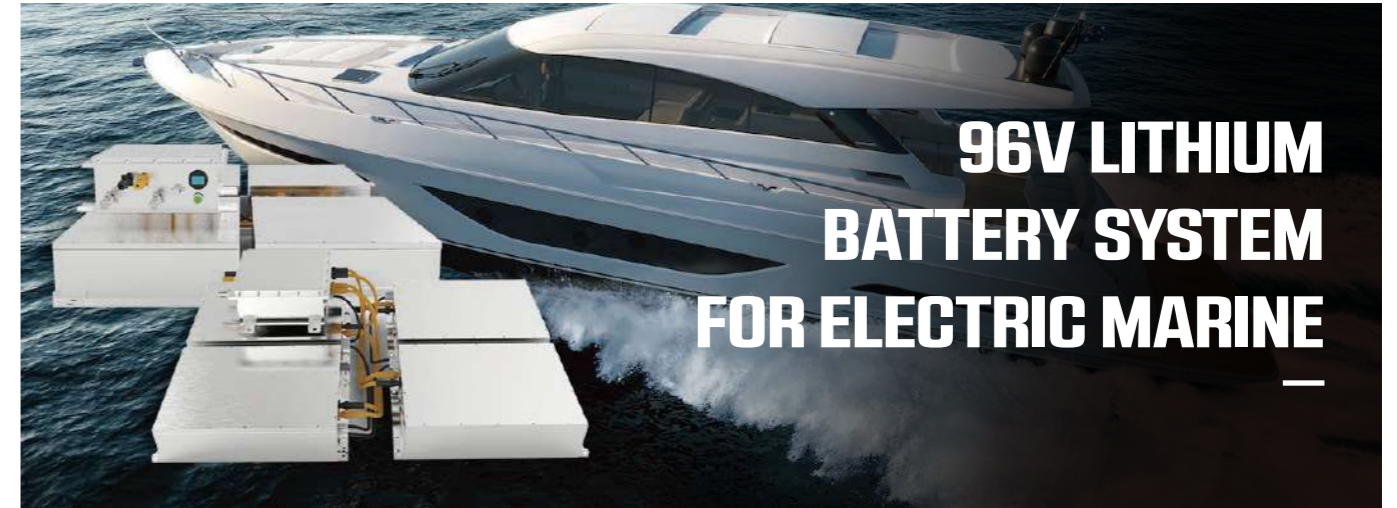
■ Electric forklift



■ Electric excavator

Remark: We can provide customized service for the whole system.

# 96V LITHIUM BATTERY SYSTEM FOR ELECTRIC MARINE



Model	M040	M016	
Nominal voltage	96.2V	60V	
Configuration	26S20P	26S20P	
Nominal capacity	420Ah	280Ah	@25°C, ±5%
Nominal energy	40.4Kwh	16.8Kwh	
Constant charging current	200A	500A	
Constant discharging current	200A	500A	
Discharge Cut-off Voltage	72.8V	44.2V	
Upper cut-off voltage	109.2V	72.8V	
Pulse discharge Current	400A	800A	
Standard case Dimension (LxWxH)	700*490*165mm	700*490*165mm	The control box dimension
Case numbers	4+1 PDU	4+1PDU	is OEM.
System Weight	~350Kg	~350Kg	
BMS in built	yes	yes	
CAN bus	yes	yes	
Life cycle	3000times	10000times	@standard working state. 80%DOD

## APPLICATION SCENARIOS



■ Electric ship



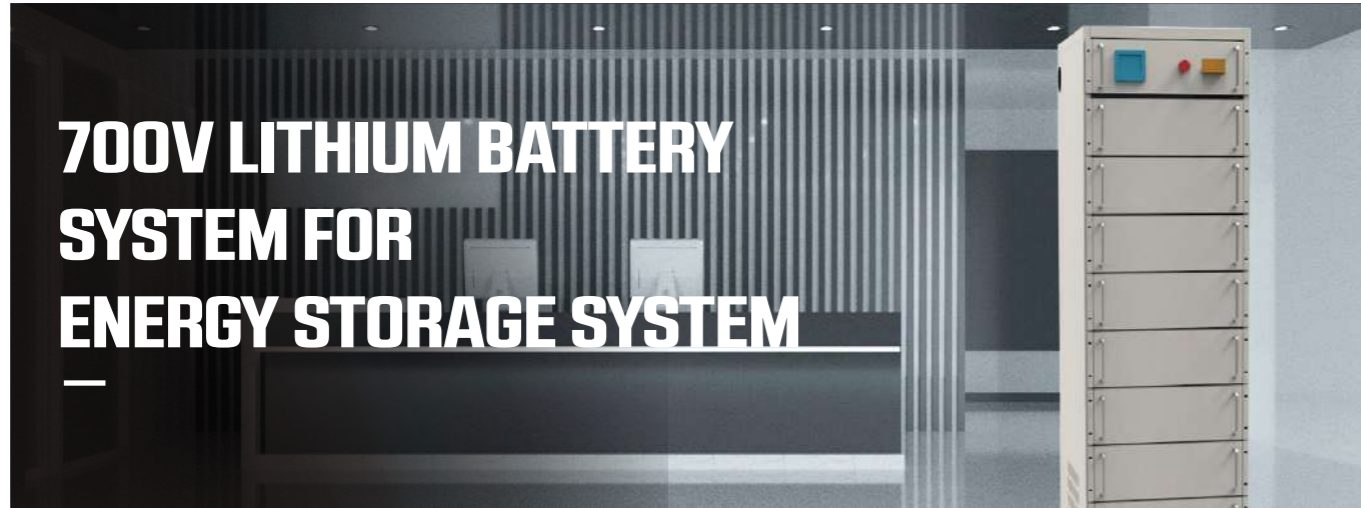
■ Electric boat



■ Electric boat

Remark: We can provide customized service for the whole system.

# 700V LITHIUM BATTERY SYSTEM FOR ENERGY STORAGE SYSTEM



Model	S028	Remark	
Nominal Energy	28KWh	---	
Nominal Capacity	40Ah	±5% @25℃	
Nominal Voltage	703.8V	---	
Absolute Maximum Voltage	856.8V	---	
Cut-off Voltage (discharging)	550.8V	---	
Configuration	306S4P	---	
Continuous Charge	200A	---	
Continuous Discharge	200A		
Recommended Depth of Discharge	90%		
Maximum Depth of Discharge	100%		
Weight	620Kg	Estimated	
Cooling	Natural cooling	---	
Ingress Protection	Indoor	---	
Storage Humidity	25% ~ 95%RH		
Operating Humidity	0 – 90% RH		
Storage Temperature	-20℃~40℃		
Operating Temperature	Discharge	-20℃~60℃	Long term use below 0℃, can choose electric auxiliary heating function.
	Charge	0℃~55℃	
Optional	The four subsystems are in parallel and can be extended to 112kwh.		

## APPLICATION SCENARIOS



■ The factory



■ On-Grid Energy storage system

Remark: We can provide customized service for the whole system.

# 600V SYSTEM FOR MINING TRUCK



Model	V150	
Standard case number	8 MV-B +1PDU	
Nominal voltage	592V	
Configuration	160S14P	
Nominal capacity	252Ah	@25℃, ±5%
Nominal energy	149.18Kwh	
Max constant charging current	400A	With 2 GB charging plugs
Max constant discharging current rate	500A	customized
Discharge Cut-off Voltage	432V	
Upper cut-off voltage	672V	
Peak discharge Current (10s)	800A	@25℃
Peak feed back Current (10s)	800A	@25℃
SOC working range	20%~100%	
Working temperature range	Discharge : -20~55 ,Charging: 0~55℃	@ low and high temperature the current should be decreased.
System Weight	~1150Kg	
BMS in built	yes	
Bluetooth function	optional	
GPS function	optional	
CAN bus	optional	
Life cycle	4000times	@standard working state. 80%DOD

## APPLICATION SCENARIOS



■ electric mining truck



■ electric mining truck

Remark: We can provide customized service for the whole system.



# 500V LITHIUM BATTERY SYSTEM FOR PUBLIC BUS

Model	B067	B025	B046	
Standard case type	2MV-C	1MV-B+1MV-C	(1MV-B+1MV-C)*2	
Case number	2 +1PDU	2 +1PDU	4+1PDU	
Nominal voltage	532.8V	464.2V	414V	
Configuration	144S6P	130S6P	180S8P	
Nominal capacity	126Ah	54Ah	112Ah	@25°C, ±5%
Nominal energy	67.1Kwh	25Kwh	46.3Kwh	
Constant charging current	100A	259A	500A	Customized
Constant discharging current rate	200A	200A	500A	Customized
Discharge Cut-off Voltage	403.2V	364V	306V	
Upper cut-off voltage	604.8V	539.5V	504V	
Pulse discharge Current	400A	400A	800A	
System Weight	~440Kg	~500Kg	~800Kg	The weight of steel rock is not included
Cooling or heating plate	yes	yes	yes	Need extra air cooling system
BMS in built	yes	yes	yes	
CAN bus	yes	yes	yes	
Life cycle	3000times	5000times	10000times	@standard working state. 80%DOD

## APPLICATION SCENARIOS



■ Electric bus



■ Electric logistics vehicle



■ electric truck

Remark: We can provide customized service for the whole system.



# PPOWER WALL

Model	LBP48120	LBP48180	LBP48270
Nominal Voltage	51.2V	51.2V	51.2V
Nominal Capacity (@25°C, ±5%)	120Ah	180Ah	270Ah
Nominal Energy	6.144kwh	9.216kwh	13.824kwh
Full Charging Time	2h		
Discharging Current	100A (Customized)		
Operating Temp(charging)	0~55°C		
Operating Temp(discharging)	-20~65°C		
Storage Temperature	-20~40°C		
Storage Humidity	25%~95%RH		
Cycle Life	>4000 Cycle in 1CC/1CD@100%DOD,75%EOL		
Ingress Protection	IP54		
Charging Cut Off Voltage Ran	57.6V		
Discharging Cut Off Voltage	41.6V		
Short Circuit Protection Current	800A		
Upper Protect Temp	65°C		
Parallel Numbers	14		
LCD/Dash Board	Yes		
Heating Function	Optional		
CAN Bus	Optional		
RS485	Yes		
GPRS/GPS/Cloud	Optional		
Bluetooth/WIFI	Optional		
Dimension	550*730*118mm	800*730*118mm	1040*730*118mm
Weight	64Kg	100Kg	130Kg

## APPLICATION SCENARIOS



■ Home usage power bank



■ office usage power bank

Remark: We can provide customized service for the whole system.

# OEM & ODM

- ✓ reasonable price
- ✓ high quality product

MORE



## TEAM BRIEF INTRODUCTION

Engineering team have more than 10 years experience in battery system design, including many world famous projects in London, Amsterdam, for different area project around the world.

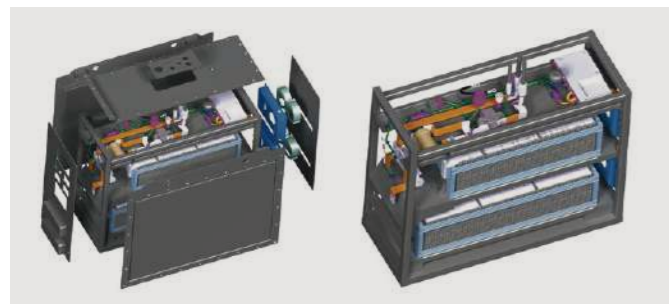
The team have professional skills in mechanical design, thermal management design, simulation , electric design and software design. Customized battery system is our advantage.

Our worker are well trained in professional skills to ensure the quality and lead time. Battery module are designed for full automatic production line for easy scale up to mass products. Our team has accomplished battery system for public bus, energy store system, forklift,mining truck,skyline crane,tunnel vehicle,electric scooter, golf cart, marine,RV,AGV,etc.

We are professional battery factory, we can provide LTO (titanium oxide), LFP (lifpo4), NCM battery type. If u want the full charging time in 30mins and 10000+ life cycles, choose LTO. Or u want high discharging current, like the forklift battery, NCM is the proper choices. Or you have not special requirements in charging and discharging current, and the budget is limited, you can choose LFP. We can provide 12V~1000V battery system for you based on your requirements.

## TYPICAL CUSTOMIZED SOLUTION CASE INTRODUCTION

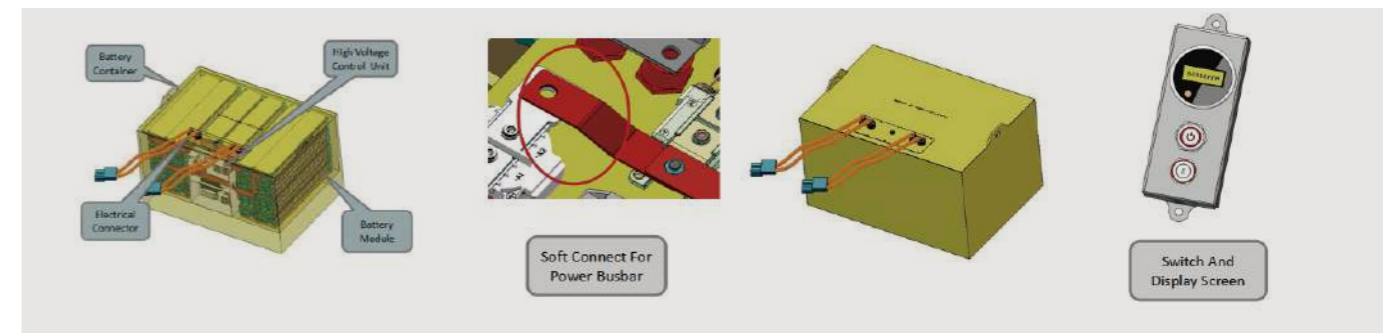
• Full Charging in 15mins24V LTO battery for AGV



• 600V 350Ah battery system for mining truck



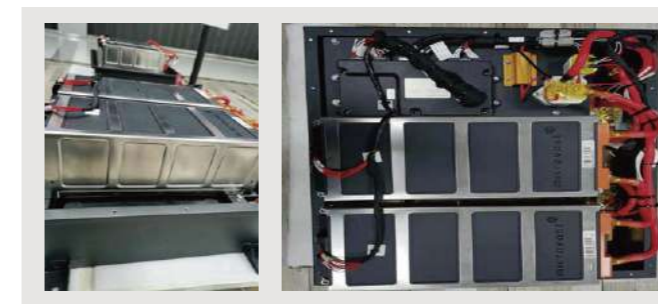
• 48V750Ah battery system for forklift



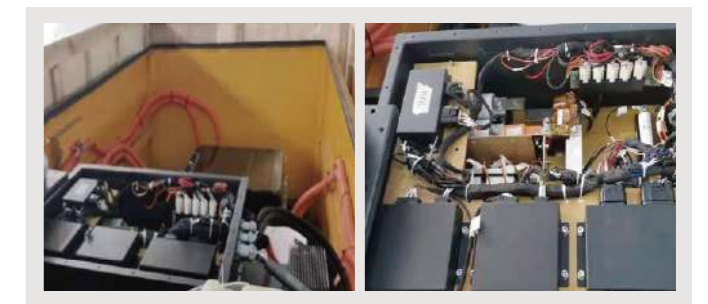
• 48V LFP battery system farm vehicle



• 72V129Ah battery system for ATV



• 600V LTO battery system for the tunnel vehicle



Remark: We can provide customized service for the whole system.

Remark: We can provide customized service for the whole system.