



HANGZHOU TONNY
ELECTRIC & TOOLS CO.,LTD

1995
ESTABLISH



MARINE BATTERY CHARGER

IP67 WATERPROOF



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COMPANY PROFILE

Founded in 1995, Hangzhou Tonny Electric & Tools Co., Ltd is a leading manufacturer and supplier of automotive electrical appliances and tools. The factory is located in Xianlin Industrial Zone, Xianlin Town, Yuhang District, Hangzhou City, with its facilities of over 200000 square feet factory site and 140000 square feet building area.

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The company specializes in design, development, manufacture and marketing of automotive electrical appliances and tools, providing OEM and ODM services to customers as well. Currently, we have twenty standard assembly lines, tens of advanced injection machines, and more than 300 employees for the production of various kinds of products.



1-bank Marine Battery Charger



TE4-0324D



- Supported Batteries: 24V/36V LiFePO4;
- Fast charging with big current 10A per bank;
- LED power & charging status indication;
- Wake up function for low voltage Lithium batteries;
- With aluminium stretched plate and waterproof cooling fan at the bottom of product for better heat dissipation;



DESIGNED FOR SAFETY



Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic Smart Charge



Cooling system Protection

TECHNICAL SPECIFICATIONS

RoHS CE Intertek

Model	TE4-0324C	TE4-0324D
Charging Current	24V10A(X1)	36V10A(X1)
Battery Type	24V LiFePO4	36V LiFePO4
Max Output Voltage	24V LiFePO4: 29.2V	36V LiFePO4: 43.8V
Size	166x245x99mm	216x245x99mm
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz	
Ingress Protection	IP 65 or IP67(epoxy potting)	

4-bank Marine Battery Charger



TE4-0330



- Supported Batteries: 12V Lithium (LiFePO4) , AGM or Lead-acid;
- Fast charging with big current 10A/15A/20A per bank;
- LED power & charging status indication;
- Wake up function for low voltage Lithium batteries;
- With aluminium stretched plate and waterproof cooling fan at the bottom of product for better heat dissipation;



DESIGNED FOR SAFETY



Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic Smart Charge



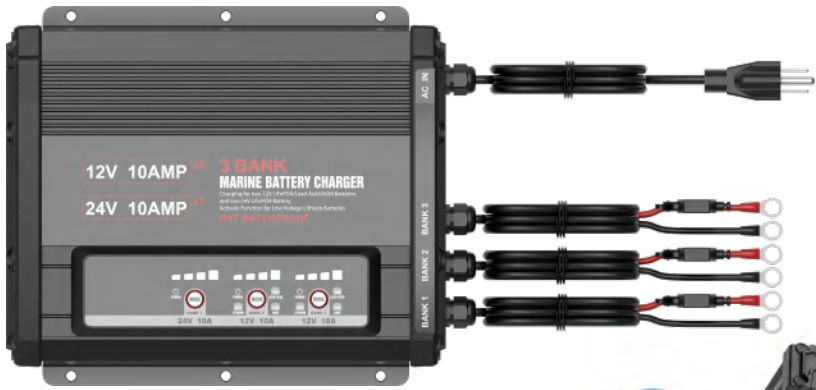
Cooling system Protection

TECHNICAL SPECIFICATIONS

RoHS CE Intertek

Model	TE4-0330	TE4-0332	TE4-0330A
Charging Current	12V10A(X4)	12V15A(X4)	12V20A(X4)
Size	304x245x99mm	502x245x99mm	556x245x99mm
Max Output Voltage	14.3-14.6V		
Battery Type	12V Flooded Lead Acid/AGM/LiFePO4(X4)		
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz		
Ingress Protection	IP67(epoxy potting)		

3-bank Marine Battery Charger



TE4-0328



- Supported Batteries: 12V/16V/24V/36V;
- Battery Type Selectable: With MODE button, battery type can be selected-Lithium (LiFePO4) , AGM or Flooded Lead-acid;
- Fast charging with big current 10A/15A/20A as per spec;
- LED power & charging status indication;
- Wake up function for low voltage Lithium batteries;
- With aluminium stretched plate and waterproof cooling fan at the bottom of product for better heat dissipation;



DESIGNED FOR SAFETY



Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic Smart Charge



Cooling system Protection

TECHNICAL SPECIFICATIONS

RoHS CE Intertek

Model	TE4-0326A	TE4-0326B	TE4-0327	TE4-0331	TE4-0328	TE4-0329
Charging Current	12V15A(X1) 16V10A(X1) 36V10A(X1)	12V15A(X1) 16V10A(X1) 24V10A(X1)	12V20A(X3)	12V10A(X3)	12V10A(X2) 24V10A(X1)	12V10A(X2) 36V10A(X1)
Battery Type	12V Lead Acid /AGM(X1) 16V LiFePO4(X1) 36V LiFePO4(X1)	12V Lead Acid /AGM(X1) 16V LiFePO4(X1) 24V LiFePO4(X1)	2V Flooded Lead Acid /AGM/LiFePO4(X3)		24V LiFePO4(X1)	36V LiFePO4(X1)
Max Output Voltage	12V: 14.3-14.6V 16V LiFePO4: 18.25V 36V LiFePO4: 43.8V	12V: 14.3-14.6V 16V LiFePO4: 18.25V 24V LiFePO4: 43.8V	14.3-14.6V		12V: 14.3-14.6V 24V: 29.2V	12V: 14.3-14.6V 36V: 43.8V
Size	398x245x99mm	356x245x99mm	410x245x99mm	246x245x99mm	304x245x99mm	361x245x99mm
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz					
Ingress Protection	IP67(epoxy potting)					

2-bank Marine Battery Charger



TE4-0325A



- Supported Batteries: 12V/24V/36V;
- Battery Type Selectable: With MODE button, battery type can be selected-Lithium (LiFePO4) , AGM or Flooded Lead-acid;
- Fast charging with big current 10A or 15A or 20A as per spec;
- LED power & charging status indication;
- Wake up function for low voltage Lithium batteries;
- With aluminium stretched plate and waterproof cooling fan at the bottom of product for better heat dissipation;



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Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic Smart Charge



Cooling system Protection

TECHNICAL SPECIFICATIONS

RoHS CE Intertek

Model	TE4-0325A	TE4-0325B	TE4-0325C	TE4-0325D	TE4-0325E
Charging Current	12V15A(X1) 36V10A(X1)	12V15A(X1) 24V10A(X1)	12V10A(X1) 24V10A(X1)	12V10A(X1) 36V10A(X1)	12V20A(X2)
Battery Type	36V LiFePO4(X1)	24V LiFePO4(X1)	24V LiFePO4(X1)	36V LiFePO4(X1)	12V Flooded Lead Acid/ AGM/LiFePO4(X1)
Max Output Voltage	43.8V for 36V	29.2V for 24V	29.2V for 24V	43.8V for 36V	/
Size	335x245x99mm	293x245x99mm	240x245x99mm	298x245x99mm	298x245x99mm
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz				
Ingress Protection	IP67(epoxy potting)				

Lithium Battery Charger



TE4-0264A



- For LiFePO4 batteries;
- LED power & charging status indication;
- Wake up function for low voltage lithium batteries;



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Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic Smart Charge

TECHNICAL SPECIFICATIONS



Model	TE4-0264A	TE4-0264P
Charging Current	12V10A(X1)	16V10A(X1)
Battery Type	12V LiFePO4	16V LiFePO4
Max Output Voltage	14.4-14.8V	18-18.25V
QTY of Outputs	1	
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz	
Size	214x202x79.5mm	
Ingress Protection	IP 65 or IP67(epoxy potting)	

Multi Bank Smart Lithium Battery Charger



TE4-0264L



- For all 12V AGM and 12V LiFePO4 Batteries;
- 2A each, 4A total;
- LED power & charging status indication;
- With one mode button on each bank to select battery type;
- Wake up function for Low Voltage Lithium batteries;

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Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic Smart Charge

TECHNICAL SPECIFICATIONS



Model	TE4-0263L	TE4-0264B
Charging Current	12V2A(X2)	12V5A(X2)
Battery Type	12V STD, GEL, AGM; 12V LiFePO4	12V LiFePO4
Max Output Voltage	14.4V±0.3V; 14.4-14.8V	14.4-14.8V
QTY of Outputs	2	
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz	
Size	214x202x79.5mm	
Ingress Protection	IP 65 or IP67(epoxy potting)	

Multi Bank Smart Lithium Battery Charger(12V/24V/36V)



TE4-0260A

TE4-0260D



- LED power & charging status indication;
- Wake up function for low voltage lithium batteries



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Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic Smart Charge

TECHNICAL SPECIFICATIONS



Model	TE4-0260A	TE4-0260C	TE4-0260D
Charging Current	12V10A(X2)	24V10A(X1)	36V10A(X1)
Battery Type	12V LiFePO4	24V LiFePO4	36V LiFePO4
Max Output Voltage	14.4-14.8V	29.2V	43.8V
QTY of Outputs	2	1	1
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz		
Size	254x242x79.5mm		
Ingress Protection	IP 65 or IP67(epoxy potting)		

2-Bank Smart Lithium
Battery Charger



TE4-0288



- 15A each, 30A total;
- LED power & charging status indication;
- Wake up function for low voltage lithium batteries



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Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic
Smart Charge

TECHNICAL SPECIFICATIONS

RoHS CE Intertek

Model	TE4-0288	TE4-0288A
Charging Current	12V15A(x2)	12V15A(x2)
Battery Type	12V Lead-acid / AGM(x2)	12V LiFePO4(x2)
Max Output Voltage	Lead-acid:14.2±0.3V AGM:14.8V±0.3V	14.4-14.8V
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz	
QTY of Outputs	2	
Size	314x214x79.5mm	
Ingress Protection	IP 65 or IP67(epoxy potting)	

2-Bank Smart Lithium
Battery Charger



TE4-0289B



- LED power & charging status indication;
- Wake up function for low voltage lithium batteries



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Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic
Smart Charge

TECHNICAL SPECIFICATIONS

RoHS CE Intertek

Model	TE4-0289B	TE4-0289C	TE4-0299A
Charging Current	12V10A(x1) 36V10A(x1)	12V10A(x1) 36V10A(x1)	12V10A(x1) 24V10A(x1)
Output Voltage Battery Type	12V Lead-acid 36V LiFePO4	12V AGM 36V LiFePO4	12V Lead-acid 24V LiFePO4
Max Output Voltage	14.2±0.3V/43.8V	14.8±0.3V/43.8V	14.2±0.3V/29.2V
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz		
QTY of Outputs	2		
Size	314x214x79.5mm		
Ingress Protection	IP 65 or IP67(epoxy potting)		

3-Bank Smart Lithium
Battery Charger(12V/24V/36V)



TE4-0287B



- LED power & charging status indication;
- Wake up function for low voltage lithium batteries

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Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic
Smart Charge

TECHNICAL SPECIFICATIONS

RoHS CE Intertek

Model	TE4-0286	TE4-0286A	TE4-0287	TE4-0287B
Charging Current	12V10A(x3)	12V10A(x3)	12V10A(x3)	12V10A(x2) 12V10A(x1)
Battery Type	12V LiFePO4(x2) Lead-acid(x1)	12V LiFePO4(x2) AGM(x1)	12V LiFePO4(x3)	12V AGM, 12V LiFePO4 24V LiFePO4
Max Output Voltage	14.4-14.8V 14.2±0.3V	14.4-14.8V 14.8±0.3V	14.4-14.8V	AGM: 14.8±0.3V 12V LiFePO4: 14.4V-14.8V 24V LiFePO4: 29.2V
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz			
QTY of Outputs	3			
Size	314x214x79.5mm			
Ingress Protection	IP 65 or IP67(epoxy potting)			

4-Bank Smart Lithium Battery Charger



TE4-0274A



- LED power & charging status indication;
- With one mode button on each bank to select battery type;
- Wake up function for Low Voltage Lithium batteries;

DESIGNED FOR SAFETY



Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic Smart Charge

TECHNICAL SPECIFICATIONS

RoHS CE ETL Intertek

Model	TE4-0273	TE4-0274	TE4-0274A
Charging Current	12V10A(x4)		
Battery Type	12V LiFePO4(x3) 12V Lead-acid(x1)	12V LiFePO4(x4)	12V STD,GEL,AGM 12V LiFePO4
Max Output Voltage	14.4-14.8V 14.2±0.3V	14.4-14.8V	14.2±0.3V/14.8V±0.3V 14.4-14.8V
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz		
QTY of Outputs	4		
Size	314x214x79.5mm		
Ingress Protection	IP 65 or IP67(epoxy potting)		

2-Bank Smart Lithium Battery Charger



TE4-0289B



- LED power & charging status indication;
- Wake up function for Low Voltage Lithium batteries;



DESIGNED FOR SAFETY



Overheat



Short Circuit



Reverse Polarity



Overcharge



Automatic Smart Charge

TECHNICAL SPECIFICATIONS

RoHS CE ETL Intertek

Model	TE4-0289	TE4-0299	TE4-0300
Charging Current	12V10A(X1) 36V10A(X1)	12V10A(X1) 24V10A(X1)	24V10A(X2)
Battery Type	12V LiFePO4(x1) 36V LiFePO4(x1)	12V LiFePO4(x1) 24V LiFePO4(x1)	24V LiFePO4(x2)
Max Output Voltage	14.4-14.8V/43.8V	14.4-14.8V/29.2V	29.2V
Rated AC Input Voltage	AC 105-125V,60Hz; AC 220-240V,50Hz		
QTY of Outputs	2		
Size	314x214x79.5mm		
Ingress Protection	IP 65 or IP67(epoxy potting)		

DC TO DC MARINE BATTERY CHARGER



TE4-0353F 1-Bank

TECHNICAL SPECIFICATIONS

RoHS CE ETL Intertek

Model	Charging Current	Battery Type	Max Output Voltage	Rated DC Input Voltage	Size
TE4-0353A	12V10A(X1)	12V Flooded Lead Acid AGM LiFePO4	14.3V-14.6V	DC 12V-30V	203x95x61mm
TE4-0353B	12V15A(X1)				
TE4-0353C	16V10A(X1)	16V LiFePO4	18V-18.25V		
TE4-0353D	16V15A(X1)				
TE4-0353E	24V10A(X1)	24V LiFePO4	28.8V-29.2V		
TE4-0353F	36V10A(X1)	36V LiFePO4	43V-43.8V		
TE4-0353G	36V15A(X1)	36V LiFePO4	43V-43.8V	DC 12V-30V	203x149x61mm
TE4-0353H	36V20A(X1)				



TE4-0355B 2-Bank

TECHNICAL SPECIFICATIONS

RoHS CE ETL Intertek

Model	Charging Current	Battery Type	Max Output Voltage	Rated DC Input Voltage	Size
TE4-0355A	12V10A(X2)	12V Flooded Lead Acid /AGM/LiFePO4(X2)	14.3V-14.6V	DC 12V-30V	203x149x61mm
TE4-0355B	24V10A(X1)	24V LiFePO4(X1)	28.8V-29.2V		
	12V10A(X1)	12V Flooded Lead Acid /AGM/LiFePO4(X1)	14.3V-14.6V		
TE4-0355C	36V10A(X1)	36V LiFePO4(X1)	43V-43.8V		
	12V10A(X1)	12V Flooded Lead Acid /AGM/LiFePO4(X1)	14.3V-14.6V		

LED extension control panel



TE4-0356C 1-Bank

TECHNICAL SPECIFICATIONS

RoHS CE ETL Intertek

Model	Charging Current	Battery Type	Max Output Voltage	Rated DC Input Voltage	Size
TE4-0356A	12V15A(X1)	12V Flooded Lead Acid AGM/LiFePO4	14.3V-14.6V	DC 12V-30V	203x95x61mm
TE4-0356B	24V10A(X1)	24V lead acid AGM/LiFePO4	28.8V-29.2V		
TE4-0356C	36V10A(X1)	36V lead acid AGM/LiFePO4	43V-43.8V		
TE4-0356D	12V10A(X1)	12V Flooded Lead Acid AGM/LiFePO4	14.3V-14.6V		
TE4-0356E	16V10A(X1)	16V LiFePO4	18V-18.25V		
TE4-0356F	16V15A(X1)				
TE4-0356G	36V15A(X1)	36V lead acid AGM/LiFePO4	43V-43.8V	DC 12V-30V	203x149x61mm
TE4-0356H	36V20A(X1)				

LED extension control panel

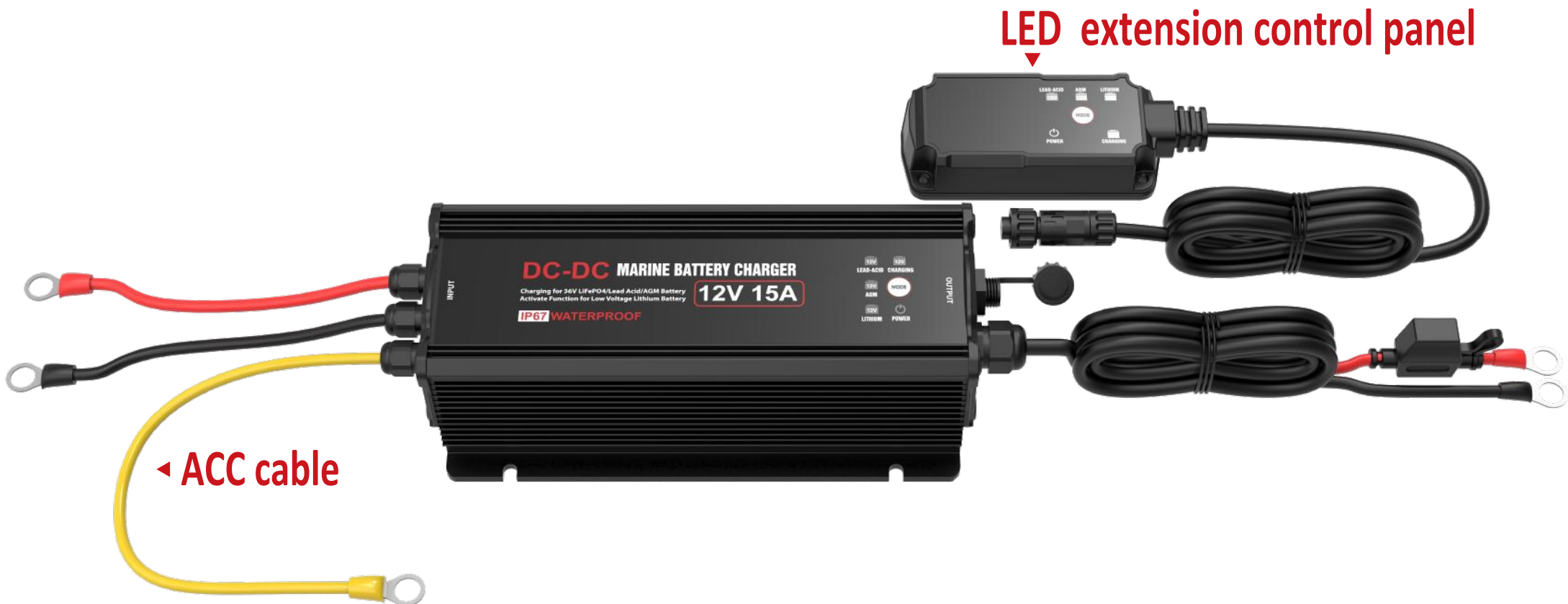


TE4-0357C 2-Bank

TECHNICAL SPECIFICATIONS

RoHS CE ETL Intertek

Model	Charging Current	Battery Type	Max Output Voltage	Rated DC Input Voltage	Size
TE4-0357A	12V10A(X2)	12V Flooded Lead Acid /AGM/LiFePO4(X2)	14.3V-14.6V	DC 12V-30V	203x149x61mm
TE4-0357B	24V10A(X1)	24V Lead Acid/AGM /LiFePO4(X1)	28.8V-29.2V		
	12V10A(X1)	12V Flooded Lead Acid /AGM/LiFePO4(X1)	14.3V-14.6V		
TE4-0357C	36V10A(X1)	36V Lead Acid/AGM /LiFePO4(X1)	43V-43.8V		
	12V10A(X1)	12V Flooded Lead Acid /AGM/LiFePO4(X1)	14.3V-14.6V		



TE4-0358A 1-Bank

TECHNICAL SPECIFICATIONS

RoHS CE ETL Intertek

Model	Charging Current	Battery Type	Max Output Voltage	Rated DC Input Voltage	Size
TE4-0358A	12V15A(X1)	12V Flooded Lead Acid AGM/LiFePO4	14.3V-14.6V	DC 12V-30V	203x95x61mm
TE4-0358B	24V10A(X1)	24V lead acid AGM/LiFePO4	28.8V-29.2V		
TE4-0358C	36V10A(X1)	36V lead acid AGM/LiFePO4	43V-43.8V		
TE4-0358D	12V10A(X1)	12V Flooded Lead Acid AGM/LiFePO4	14.3V-14.6V		



TE4-0359C 2-Bank

TECHNICAL SPECIFICATIONS

RoHS CE ETL Intertek

Model	Charging Current	Battery Type	Max Output Voltage	Rated DC Input Voltage	Size
TE4-0359A	12V10A(X2)	12V Flooded Lead Acid /AGM/LiFePO4(X2)	14.3V-14.6V	DC 12V-30V	203x149x61mm
TE4-0359B	24V10A(X1)	24V Lead Acid/AGM /LiFePO4(X1)	28.8V-29.2V		
	12V10A(X1)	12V Flooded Lead Acid /AGM/LiFePO4(X1)	14.3V-14.6V		
TE4-0359C	36V10A(X1)	36V Lead Acid/AGM /LiFePO4(X1)	43V-43.8V		
	12V10A(X1)	12V Flooded Lead Acid /AGM/LiFePO4(X1)	14.3V-14.6V		



TE6-1701

Battery Box with Power Accessories

- ① Dual USB (5V2.1A/3.0A)
- ② 12V CIG Socket
- ③ 12V&24V Battery Capacity &Voltage ON/OFF switch
- ④ 30A circuit breaker
- ⑤ Power terminal (positive and negative)
- ⑥ Inner size : 330*210*220mm
- ⑦ Outer size : 425*255*340mm
- ⑧ Material :PP
- ⑨ Suitable to 120A battery

DC Control Box for External Battery With Voltage Display



TE6-1702



- ① Supplied wire gauges: 10AWG and 14AWG Standard Fittings
- ② Built-in weatherproof 6 way Fuse block (100A total max) with individual fuses for each outlet (supplied with 1 x 5A, 3 x 15A, 1 x 20A, 2 x 30A Blade-type fuses)
- ③ 3 x weatherproof cigarette-lighter type 20 Amp DC sockets
- ④ 6 x 20A On-Off power switches, blue LED indicators (3 connections)
- ⑤ Blue LED Digital Voltage monitor (range 6V to 30V)
- ⑥ Dual Port USB socket with 1A and 2.1A outputs
- ⑦ 2 x 50A High Current Connectors for handy solar and battery connection
- ⑧ 2 x 4-way internal Bus Bars for more connections (150A 32V DC max)



TE6-1703

12V/24V Mini Power Hub

- ① 3x 50A High Current Battery Connectors for Input and Outputs
- ② 4 x USB-A 2.4A Ports
- ③ 1 x USB Type-C Power Delivery Port
- ④ 2 x Cigarette Lighter Power Sockets
- ⑤ Battery Isolator Switch
- ⑥ Internal Fuse Block
- ⑦ LED Voltmeter
- ⑧ Mounting holes

STRICT QUALITY CONTROL—PROFESSIONAL TEST LAB

We have professional test lab with kinds of advanced test equipment to ensure high product quality



Aging Test Chamber



Dynamic Balancing Tester



Salt Spray Test Machine



Noise Testing Box



Programmable Temperature & Humidity Chamber



High/Low Temperature Test Chamber



O-E Measuring Instrument



Test Workbench

THANK YOU



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