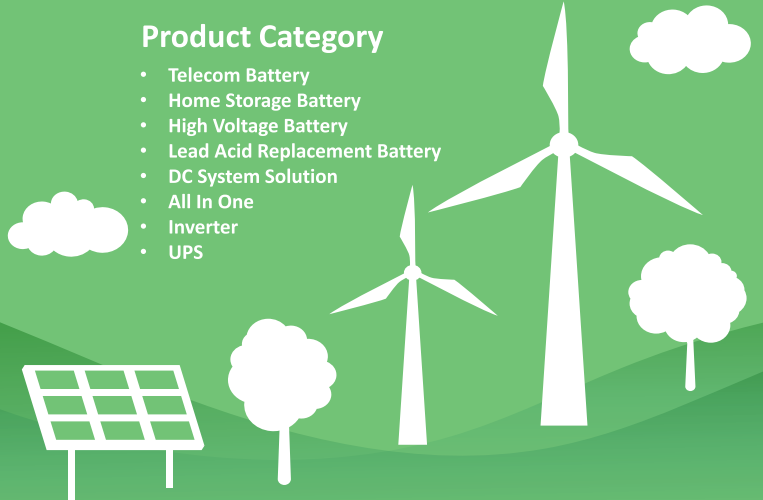




TECH LINE ENERGY

Product Category

- Telecom Battery
- Home Storage Battery
- High Voltage Battery
- Lead Acid Replacement Battery
- DC System Solution
- All In One
- Inverter
- UPS





About Us

Technical Fiber Optics Lines Factory (TechLine) is a big factory that was established in Jordan in 2016 and is located in Al Qastal industrial area in Amman. It is ISO 9001, ISO 14001, ISO 45001 certified with the scope distinction of being the first of its kind in the Middle East region.





Why TechLine

Our unique (Patented) Products are in great demand because:

- Just in Time for meeting product delivery to clients.
- Comply with standard or customized products within Telecom Operators & ISP's network design.
- Product customization to meet our client's design and requirements.
- Supply Premium Products and Raw materials with durability and high quality.
- Direct interaction with the technical team.
- Technical and design services.
- We have different design options using our flexible lean manufacturing lines to meet our client's designs and needs.

We can help to design a full Energy Solution services:

- LiFePO4 Telecom Battery .
- LiFePO4 Home Storage.
- LiFePO4 High Voltage Battery solutions .
- LiFePO4 Lead Acid Replacement .
- Telecom DC power system solutions

Our Product

Lithium Iron Phosphate (LifePO4) Battery

0.48 V - 100 Ah-3U

TEBATLV3480100



PRODUCT SPECIFICATIONS

Electrical Characteristics	Nominal Voltage	48.0V
	Nominal Capacity	100Ah
	Nominal Energy	4800W
	Combination Method	15S1 P
	Cycle Life	>=5000cycles @80%DOD @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
	Efficiency of Discharge	>= 98%
Standard Charge	Recommended Charging Voltage	54.0V
	Recommended Charging Current	20A
	Max. Charging Voltage	54.75V
	Max. Charging Current	100A
Standard Discharge	Recommended Discharging Current	50A
	Max. Pulse Current	100A
	Discharge Cut-off Voltage	40.0V
Environmental	Charge Temperature	0°C~65 °C
	Discharge Temperature	-20°C~65°C
	Storage Temperature	0°C~35°C >1month, -20°C~45 <1 month
Other	IP Class	IP 30
	Case	Metal
	Dimensions (W)x(H)x(D) (mm)	505*133*440mm
	Weight (kg)	43 kg
	Features	Anti-theft function.gps , RS485, CAN,RS232, SNMP

Our Product

Lithium Iron Phosphate (LifePO4) Battery

0.48 V - 150 Ah-4U

TELBATV4480150



PRODUCT SPECIFICATIONS

Electrical Characteristics	Nominal Voltage	48.0V
	Nominal Capacity	150Ah
	Nominal Energy	7200W
	Combination Method	15S1 P
	Cycle Life	>=5000cycles @80%DOD @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
Standard Charge	Efficiency of Discharge	>= 98%
	Recommended Charging Voltage	54.0V
	Recommended Charging Current	30A
	Max. Charging Voltage	54.75V
Standard Discharge	Max. Charging Current	100A
	Recommended Discharging Current	75A
	Max. Pulse Current	150A
	Discharge Cut-off Voltage	40.0V
Environmental	Charge Temperature	0°C~45°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	0°C~40°C
Other	IP Class	IP 30
	Case	Metal
	Dimensions (W)x(H)x(D) (mm)	440*177*550mm
	Weight (kg)	67 kg
	Features	Anti-theft function, gps (optional), SNMP, RS845, CAN, RS232

Our Product

Lithium Iron Phosphate (LifePO4) Battery

0.48 V - 150 Ah-3U

TEBATLV4480150



PRODUCT SPECIFICATIONS

Electrical Characteristics	Nominal Voltage	48.0V	
	Nominal Capacity	150Ah	
	Nominal Energy	7200W	
	Combination Method	15S1 P	
	Cycle Life	>=3500cycles @80%DOD @25°C (0.2C charge)	
	Months Self Discharge	3% / Per Month	
	Efficiency of Charge	>= 92%	
Standard Charge	Efficiency of Discharge	>= 84%	
	Recommended Charging Voltage	54.0V	
	Recommended Charging Current	30A	
	Max. Charging Voltage	54.75V	
	Max. Charging Current	75A	
Standard Discharge	Recommended Discharging Current	100A	
	Discharge Cut-off Voltage	40.0V	
	Charge Temperature	0°C~4 5°C	
	Discharge Temperature	-20°C~60°C	
Environmental	Storage Temperature	0°C~40°C	
	Other	IP Class	IP 30
		Installation method	Rack Mounted
Dimensions (W)x(H)x(D) (mm)		442*130*570mm,+/-5 mm	
Weight (kg)		60 kg	
optional	GPS, Anti-theft function.CLD		

Our Product

Lithium Iron Phosphate (LifePO4) Battery

0.48 V - 230 Ah-5U

TELBATV5480230



PRODUCT SPECIFICATIONS

Electrical Characteristics	Nominal Voltage	48.0V
	Nominal Capacity	206Ah
	Nominal Energy	9888W
	Combination Method	15S1 P
	Cycle Life	>=3000 cycle @0.5c 25c±2
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
	Efficiency of Discharge	>= 98%
Standard Charge	Recommended Charging Voltage	54.0V
	Recommended Charging Current	40A
	Max. Charging Voltage	54.75V
	Max. Charging Current	100A, 200 A(OPTIONAL)
Standard Discharge	Recommended Discharging Current	50 A
	Max. Pulse Current	100 A, 200 A (OPTIONAL)
	Discharge Cut-off Voltage	41.0V
	Charge Temperature	0°C~60°C
Environmental	Discharge Temperature	-20°C~60°C
	Storage Temperature	-5°C~45°C
	IP Class	IP 30
Other	Case	Metal
	Dimensions (W)x(H)x(D) (mm)	433.3*222.25*617.2mm
	Weight (kg)	81 kg
	optional	Anti-theft function, snmp, gps, RS485, CAN



Easy to install



Long Life Cycle



Support Deep Customization

Our Product

Power Cabinet – Air Fans



- Techline GSM outdoor enclosure solutions are specifically designed for GSM applications and offer features & functionality that meet every customer's need when constructing —a GSM site, we provide a complete custom-made solution even for most demanding applications, which incorporate 48V DC modular power systems, batteries, AC&DC electrical distribution, remote monitoring, and various thermal conditioning systems (fan/filters, air conditioners, Heat exchangers, hybrids, and heaters) that will keep even the most sensitive electronics functioning in extreme environments. These outdoor solutions can be used both for ground mounting and pole installations.

Our Product

Outdoor Power Cabinet

TEDC2442

Embedded switching power supply system		
product category		24KW
System index	Dimensions (W*D*H)	750*750*2213.8
	weight	cabinet: 180KG
	Installation mode	Cabinet loading
	rated power	24KW@-48VDC
	Power module	4KW rectifier module× 6
	Working temperature	-40°C ~+55°C (no solar radiation)
	Heat dissipation	Fan cooling
environmental index	Storage/transport	-40°C to +70°C
	humidity	5% to 95%
Power input	Input system	220 V/380V AC three-phase four-
	input voltage	AC: 85~ 300 V AC
	Input frequency	45 Hz - 65 Hz
	Ac input	1*4P 125A
Load output	DC output power	Max. 24KW (6PCS)
	DC output	-53.5 Vdc
	Dc output	Primary power down: 12*125A / 8*63A
	Battery branch	4*125A



Our Product

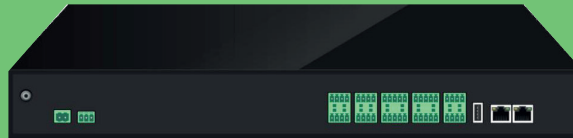
Field Supervision Unit FSU

Monitoring Unit FSU1000

FSU1000 is a hardware acquisition device for the hardware control and service of the cabinet and machine room station. miniaturized, high reliability and convenient installation power environment monitoring system for Communication

Base Station, integrated computer room and outdoor cabinet, it is specially used for power, environment, equipment control and remote monitoring of Communication Base Station, integrated machine room and outdoor machine cabinet, built-in DC voltage measurement function, and equipped with 8 Hall Effect Sensor Interface, used to measure DC current, analog measurement voltage, current transmitter, it has multi-channel

RS485/RS232 signal (up to 16) access function, can Be used for switching power supply, air conditioning, UPS, lithium batteries, smart meters, electronic door locks, voice, video equipment protocol access, variety of communication mode selection (RS485/RS232, TCP, UDP, SNMP, NB-IOT, 4g, WIFI, etc.) , easy to network. FSU1000 series dynamic environment monitoring unit supports access to 7-inch configuration display



Our Product

High Voltage Lithium Battery

TEBATHV

Tech Line Factory's High Voltage LiFePO₄ Battery system is a modular energy storage solution engineered to meet precise customer power and voltage requirements. The system operates over a configurable high-voltage DC range and utilizes LiFePO₄ cells for enhanced safety, thermal stability, and long cycle life. An advanced BMS performs continuous cell-level monitoring, balancing, and comprehensive electrical and thermal protection.

Standard CAN and RS485 communication interfaces enable reliable integration with inverters and energy management systems. Rack or cabinet-based construction allows scalable deployment for telecom, industrial, and renewable energy applications.



Our Product

High Voltage Lithium Battery

100KW High Voltage Battery

TEBATHV512280



100KWh High voltage	
Cell Type	3.2V280AH (1C)
Configuration	16S1P
Rated Voltage	51.2V
Rated Capacity	280Ah
Rated Energy	14.336kWh
Voltage Range (Each battery)	43~57.6(V)
Dimension(W*D*H)	48*84*24 cm
Weight	120 kg
Configuration	144S1P
Maximum Charge Current	125A
Maximum Discharge Current	125A
Discharge cut-off voltage	417.6V
System Dimension(W*D*H)	590*840*2305 MM
Total Weight	1250 (kg)
Operating temperature	-20~65°C
Protocol	CAN/RS85
Dry Contact	Optional
Screen	optional
Warranty	5 years

Our Product

Lithium Iron Phosphate (LifePO4) Battery

51.2V 5.12 Kwh

TEBATLV512100



PRODUCT SPECIFICATIONS

Electrical Characteristics	Nominal Voltage	51.2 V
	Nominal Capacity	100 Ah
	Nominal Energy	5.12 kwh
	Cycle Life	>=6000cycles @90%EOL @25°C (0.2C charge)_ GRADE A
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
	Efficiency of Discharge	>= 98% _s
Standard Charge	Recommended Charging Voltage	57 V
	Recommended Charging Current	100 A
	Max. Charging Voltage	58.4 V
	Max. Charging Current	100 A
	Recommended Discharging Current	20A
Standard Discharge	Max. Pulse Current	100A
	Discharge Cut-off Voltage	46.4 V
	Charge Temperature	0~60°C
Environmental	Discharge Temperature	-20°C~60°C
	Storage Temperature	0°C~40°C
	IP Class	IP 30
Other	Case_ Dimension	METAL _ (480*631*150)mm
	Weight (kg)	45 KG
	Features	phone application, Bluetooth, WIFI_ , 3.5-inch screen
	Protocols	RS485, CAN, RS232
	FIXATION	Wall mounted_ wheels , Floor stand ,
	CELL Grade	Grade A
	Warranty	10 years

Page 2 of

Our Product

Lithium Iron Phosphate (LifePO4) Battery

51.2V 10.547 Kwh

TEBATLV512206



PRODUCT SPECIFICATIONS		
Electrical Characteristics	Nominal Voltage	51.2 V
	Nominal Capacity	206 Ah
	Nominal Energy	10.547 kwh
	Cycle Life	>=8000cycles @90%EOL @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
	Efficiency of Discharge	>= 98%
	Recommended Charging Voltage	57 V
Standard Charge	Recommended Charging Current	100 A
	Max. Charging Voltage	58.4 V
	Max. Charging Current	200 A
	Recommended Discharging Current	40A
Standard Discharge	Max. Pulse Current	200A
	Discharge Cut-off Voltage	46.4 V
	Charge Temperature	0~60°C
	Discharge Temperature	-20°C~60°C
Environmental	Storage Temperature	0°C~40°C
	IP Class	IP 30
	Case	METAL
Other	Weight (kg)	65 KG
	Features	phone application, Bluetooth, WIFI, 3.5-inch screen
	Protocols	RS485, CAN, RS232
	Fixation, DIMENTION	Wheels, (486 * 714* 232 MM)
	Cell grade	Grade A
	Warranty	10 Years

Our Product

Lithium Iron Phosphate (LifePO4) Battery

51.2V 14.336Kwh

TEBATLV512280



PRODUCT SPECIFICATIONS

Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	280Ah
	Nominal Energy	14.336kwh
	Combination Method	16S1 P
	Cycle Life	>=8000cycles @80%EOL @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
Standard Charge	Efficiency of Discharge	>= 98%
	Recommended Charging Voltage	57V
	Recommended Charging Current	56 A
	Max. Charging Voltage	58 V
Standard Discharge	Max. Charging Current	200 A
	Recommended Discharging Current	56A
	Max. Pulse Current	200A
Environmental	Discharge Cut-off Voltage	46V
	Charge Temperature	0~60°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	0°C~40°C
Other	IP Class	IP 30
	Case	Wheels, wall mounted, rack mounted, Metal
	Dimensions (W)x(H)x(D) (mm)	505.3*877*250 MM
	Weight (kg)	120 KG
	Features	phone application, Bluetooth, WIFI, RS485, CAN, 7 inches touch screen
	Cells Grade	Grade A
	Warranty	10 years



Easy to install



Long Life Cycle



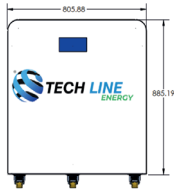
Support Deep Customization

Our Product

Lithium Iron Phosphate (LifePO4) Battery

51.2V 28.672WH

TEBATLV512560



PRODUCT SPECIFICATIONS

Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	560Ah
	Nominal Energy	28672W
	Combination Method	16S 2 P
	Cycle Life	>=6000cycles @80%DOD @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
Standard Charge	Efficiency of Discharge	>= 98%
	Recommended Charging Voltage	57.6V
	Recommended Charging Current	46A
	Max. Charging Voltage	58.4V
	Max. Charging Current	200A
Standard Discharge	Recommended Discharging Current	100A
	Max. Pulse Current	200A
	Discharge Cut-off Voltage	43.7V
Environmental	Charge Temperature	0°C~60°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	-40°C~60z °C
Other	IP Class	IP 30
	Case	Metal
	Dimensions (W)x(H)x(D) (mm)	(805.88*962.69*291) mm
	Weight (kg)	212 Kg

TEBATLV128230



PRODUCT SPECIFICATIONS		
Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	230Ah
	Nominal Energy	2944W
	Combination Method	4S1 P
	Cycle Life	>=6000cycles @80%DOD @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
	Efficiency of Discharge	>= 98%
Standard Charge	Recommended Charging Voltage	14.4V
	Recommended Charging Current	46A
	Max. Charging Voltage	14.6V
	Max. Charging Current	200A
Standard Discharge	Recommended Discharging Current	100A
	Max. Pulse Current	200A
	Discharge Cut-off Voltage	10.9V
Environmental	Charge Temperature	0°C~4 5°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	0°C~40°C
Other	IP Class	IP 30
	Case	Metal
	Dimensions (W)x(H)x(D) (mm)	(321.8*229.6*235.6) mm
	Weight (kg)	34 kg

Our Product

Lithium Iron Phosphate (LifePO4) Battery

12.8V 1.2Kwh

TEBATLV128100



PRODUCT SPECIFICATIONS

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah
	Nominal Energy	1280Wh
	Combination Method	4S1 P
	Cycle Life	>=3500cycles @80%DOD @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
Standard Charge	Efficiency of Discharge	>= 98%
	Recommended Charging Voltage	14.4V
	Recommended Charging Current	20A
	Max. Charging Voltage	14.6V
Standard Discharge	Max. Charging Current	100A
	Recommended Discharging Current	50A
	Max. Pulse Current	100A
Environmental	Discharge Cut-off Voltage	10.9V
	Charge Temperature	0°C~4 5°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	0°C~40°C
Other	IP Class	IP 30
	Case	Metal
	Dimensions (W)x(H)x(D) (mm)	(246.5*183.1*161) mm
	Weight (kg)	12 kg



Easy to Install



Long Life Cycle



Support Deep Customization

Our Product

Lithium Iron Phosphate (LifePO4) Battery

5Kwh BATT & 3.5 KW INVERTER

TEAIO512100



PRODUCT SPECIFICATIONS

Battery specification

Electrical specification	Nominal Voltage	51.2 v
	Nominal Capacity	100 AH
	Cycle Life	>=6000cycles @90%EOL @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
	Efficiency of Discharge	>= 98% _s
Charging parameters	Recommended Charging Voltage	57 V
	Recommended Charging Current	20 A
	Max. Charging Voltage	58.4 V
	Max. Charging Current	100A
Discharging parameters	Recommended Discharging Current	20A
	Max. Pulse Current	100A
	Discharge Cut-off Voltage	46.4 V
Environment	Charge Temperature	0°C~60°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	0°C~40°C

Inverter specification

Electrical specification	Input voltage wave form	UTILITY OR GRID
	Nominal input voltage	230 VAC
	NOMINAL INPUT FREQUENCY	50-60 HZ (AUTO Detection)
	Rated output power	3.5 kw
	Output voltage waveform	pure sine wave
	Output voltage Regulation	230 VAC ±5%
	Over load protection	5s@>140% load, 10s@>100%load
	Cold start voltage	46
	Maximum pv open circuit voltage	500 v
	Solar charge type	Mppt
	Mppt range and working voltage	120-450 vdc
	Peak Efficiency	93.50%
	Maximum solar charging current	100 A
	Maximum ac charging current	60
	Recommended ac charging current	15

Our Product

Lithium Iron Phosphate (LifePO4) Battery

3.5KW/5.5KW inverter

TEINV



TechLine Inverter		
Parameter	3.5 KVA	5.5 KVA
Rated Output Power	3.5 KVA / 3.5 kW	5.5 KVA / 5.5 kW
Input Voltage Waveform	Sinusoidal (Utility or Generator)	Sinusoidal (Utility or Generator)
Nominal Input Voltage	230 Vac	230 Vac
Low Loss Voltage	170 Vac \pm 7V (UPS) / 90 Vac \pm 7V (Appliances)	Same
Low Loss Return Voltage	180 Vac \pm 7V (UPS) / 100 Vac \pm 7V (Appliances)	Same
High Loss Voltage	280 Vac \pm 7V	280 Vac \pm 7V
High Loss Return Voltage	270 Vac \pm 7V	270 Vac \pm 7V
Max AC Input Voltage	300 Vac	300 Vac
Nominal Input Frequency	50 Hz / 60 Hz (Auto Detection)	51 Hz / 60 Hz (Auto Detection)
Low Loss Frequency	40 \pm 1 Hz	41 \pm 1 Hz
Low Loss Return Frequency	42 \pm 1 Hz	43 \pm 1 Hz
High Loss Frequency	65 \pm 1 Hz	66 \pm 1 Hz
High Loss Return Frequency	63 \pm 1 Hz	64 \pm 1 Hz
Output Short Circuit Protection	Line Mode: Circuit Breaker / Battery Mode: Electronic Circuits	Line Mode: Circuit Breaker / Battery Mode: Electronic Circuits
Efficiency (Line Mode)	>95% (Rated Load, Battery Full)	>95% (Rated Load, Battery Full)
Transfer Time	10 ms (UPS) / 20 ms (Appliances)	11 ms (UPS) / 20 ms (Appliances)



Easy to Install



Long Life Cycle



Support Deep Customization

Our Product

High Voltage Lithium Battery

UPS Support Services

- Comprehensive technical support for UPS systems across industrial, commercial, telecom, healthcare, and data center applications
- Preventive and corrective maintenance to ensure maximum reliability and system continuity
- Battery inspection, performance testing, and lifecycle management
- Load testing, system health checks, and performance diagnostics
- Firmware upgrades, system configuration, and commissioning
- Spare parts supply, replacement, and troubleshooting
- 24/7 technical assistance and rapid on-site support

TEUPS





The Art of Customized Energy

Techline Factory represents excellence in advanced lithium energy and power storage solutions. As a dedicated manufacturer, Techline designs and produces high-quality, fully customized systems engineered to meet the precise requirements of each customer. With complete control over design, manufacturing, and quality assurance, every solution reflects superior craftsmanship, technical precision, and long-term reliability. From tailored voltage and capacity to intelligent protection and seamless integration, Techline transforms complex energy demands into refined, dependable power solutions. Trusted across critical applications, Techline defines a premium standard in lithium energy—where performance, quality, and customization converge.



Easy to install



Long Life Cycle



Support Deep Customization



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