

PORTABLE BATTERY  
COLLECTION  
JULY 2018

# TRACER<sup>®</sup>

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# LITHIUM POLYMER BATTERY PACKS (LiPo)



These batteries are in use in their thousands, for many applications where the lightest, most compact battery is needed. The UK's top selling 12V lithium battery.

• **Key features:**

- Extremely lightweight (1/4 weight of Sealed Lead Acid)
- Small physical size
- Built in fuel gauge
- Faster recharge time
- Flat discharge curve – high power for longer
- Overcharge and short circuit protected
- Robust ABS case
- Temperature Range (charging): 0°C – 45°C
- Temperature Range (discharging): -10°C – 60°C
- Cycle life > 300 cycles

• **Highlighted features:**

- 01 12V Charge port
- 02 12V Output (Bullet)
- 03 Fuel gauge with indicator lights
- 04 Robust ABS casing

• **Safety features:**

Integrated Electronic 'Battery Management System' (BMS) provides the following protection:

- Overcharge & over-discharge protection
- Thermal protection
- Over current protection
- Short circuit protection

• **What's in the box:**

- Neoprene carry case
- **TR8132** – Output Bullet Lead to 12V Socket
- **TR8136** – 1.65A AC mains charger (UK, US, EU, AUS adaptor)
- **TR8137** – DC Vehicle Charger



UN 38.3  
Certified



CE Approved



Protected  
against  
overcharge



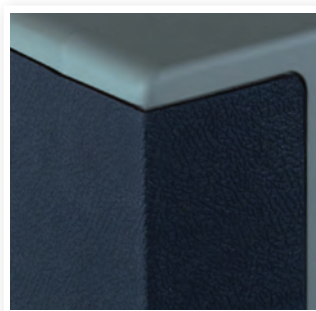
12 Month  
warranty



Fuel gauge – instant battery charge monitor.



Lightweight.



Soft grip texture – Non slip rubber.



AC Mains Charger, 12V DC Charger, 12V Output connector.



*Flat Discharge – Brighter for longer. If you are powering lights they will remain brighter for longer, giving you sustained performance.*



**Bespoke connections**

Custom made adaptors available. We are able to offer almost any conceivable configuration, adaptor or connection for your LiPo battery pack. Please contact us with your specific requirements: **t:** 01394 387762  
**e:** sales@tracerpower.com

## OPTIONAL ACCESSORIES



**TR8129**  
Bullet straight Adaptor  
Cable to Bare End (1m)



**TR8132**  
Bullet right angle to  
12V Socket (0.2m)



**TR8133**  
Bullet to 12V Plug (0.2m)



**TR8134**  
Bullet straight to right  
angle (0.2m)



**TR8139**  
Bullet straight to  
12V Socket (0.2m)



**TR8140**  
Bullet right angle Adaptor  
Cable to Bare End (1m)



**TR8141**  
Bullet Adaptor Cable  
to DC Plug 2.1mm  
Centre (0.5m)



**TR8142**  
Bullet Adaptor Cable  
to DC Plug 2.5mm  
Centre (0.5m)



**TR8143**  
Bullet Adaptor Cable  
to 1/4" (6.35mm)  
Jack Socket (0.2m)



**TR8144**  
Bullet Adaptor Cable to  
XLR 4 Pin (0.5m)



**TR8136**  
12V 1.65A LiPo Mains  
Charger with Multiple  
Adaptors (1m)



**TR8137**  
12V DC Vehicle  
Charger (1m)



**TR8138 – (Half your charge time!)**  
12V 3A Fast Charger with UK & EU leads. (1m)  
(Not for use on **BP2541**)



Code	Model	Dimensions (mm)			Weight (g)	Charge time (hrs)		Run time (hrs – mins) 100W	Max discharge current	
		A	B	C		1.65A	3A		Continuous	Peak (for 10ms)
<b>BP2541</b>	12V 4Ah	76	115	32	360	2-3	N/A	N/A*	4A	20A
<b>BP2544</b>	12V 8Ah	80	152	38	600	8-12	4-6	0h45m	8A	30A
<b>BP2545</b>	12V 10Ah	80	152	48	735	9-14	4-7	1h10m	10A	30A
<b>BP2546</b>	12V 14Ah	115	161	56	950	10-16	5-8	1h30m	10A	30A
<b>BP2548</b>	12V 22Ah	115	161	56	1250	14-20	7-10	2h10m	10A	30A

\* BP2541 – only suitable for 50W max. output.



## LITHIUM IRON PHOSPHATE BATTERY PACKS (LiFePO<sub>4</sub>)



**This is the newest battery range developed by Tracer. LiFePO<sub>4</sub> batteries are the safest battery technology available.**

The output voltage is identical to SLA (Sealed Lead Acid) batteries, but they weigh approximately 1/3 of SLA. Users will enjoy over 1400 cycles with these batteries.

### • Key features:

- Extremely lightweight (1/3 weight of Sealed Lead Acid)
- Small physical size
- Waterproof design to IP64
- Built in fuel gauge
- Faster recharge time
- Flat discharge curve – high power for longer
- Overcharge and short circuit protected
- Robust ABS case
- Temperature Range (charging): 0°C – 40°C
- Temperature Range (discharging): -10°C – 60°C
- Cycle life > 1400 cycles

### • Safety features:

- Integrated Electronic 'Battery Management System' (BMS) provides the following protection:
- Overcharge & over-discharge protection
  - Thermal protection
  - Over current protection
  - Short circuit protection

### • What's in the box:

**BP2603** comes with:

- Canvas carry case
- **TR8204** – 2A AC charger
- **TR8175** – Mini T-Bar to 12V Socket

**BP2607, BP2612, BP2616 & BP2624**

comes with:

- Canvas carry case
- **TR8205** – 4A AC charger
- **TR8175** – Mini T-Bar to 12V Socket



UN 38.3  
Certified



CE Approved



Protected  
against  
overcharge



24 Month  
warranty

### • Highlighted features:

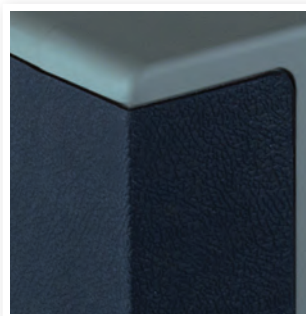
- 01** 12V Charge port
- 02** Fuel gauge with indicator lights
- 03** 12V Mini T-Bar Output
- 04** Robust ABS casing



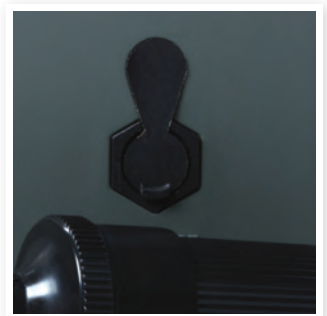
Fuel gauge – Waterproof battery condition gauge.



Easy connect function – Snap in Mini T-Bar.



Soft grip texture – Non slip rubber.



Charging port dust cover.



*Enjoy over 1400 cycles with these batteries, which are also capable of fast charging.*



### Bespoke connections

Custom made adaptors available. We are able to offer almost any conceivable configuration, adaptor or connection for your LiFePO<sub>4</sub> battery pack. Please contact us with your specific requirements: **t:** 01394 387762  
**e:** sales@tracerpower.com

# OPTIONAL ACCESSORIES



**TR8170**  
Mini T-Bar to Bare Lead  
(0.2m)



**TR8171**  
Mini T-Bar to DC Plug  
2.1mm Centre (0.5m)



**TR8172**  
Mini T-Bar to DC Plug  
2.5mm Centre (0.5m)



**TR8173**  
Mini T-Bar to 1/4"  
(6.35mm) Jack  
Socket (0.2m)



**TR8174**  
Mini T-Bar to XLR 4 Pin  
(0.2m)



**TR8175**  
Mini T-Bar to 12V Cigar  
Socket (0.2m) (supplied)



**TR8204**  
12V 2A LiFePO<sub>4</sub> Smart  
Charger with UK & EU  
leads (1m) (supplied  
in **BP2603**)



**TR8205**  
12V 4A LiFePO<sub>4</sub> Smart  
Charger with UK & EU  
leads (1m) (supplied  
in **BP2607, BP2612,  
BP2616 & BP2624**)



**TR8180 DC Vehicle Charger**  
Charge from your Vehicle to 12V LiFePO<sub>4</sub>

Tracer have developed a DC to DC charger with a 'Buck Booster' circuit. This charger enables the \*LiFePO<sub>4</sub> battery to be charged from a vehicle cigar socket. The input voltage to the buck booster can be from 9-16V DC and the output voltage is stabilised at 14V, the voltage needed to charge a LiFePO<sub>4</sub> battery. Maximum output current is 2A.

\* not to be used on LiPo batteries.



Code	Model	Dimensions (mm)			Weight (g)	Charge time (hrs)		Run time (hrs - mins) 100W	Max discharge current	
		A	B	C		12V 2A	12V 4A		Continuous	Peak (for 10ms)
<b>BP2603</b>	12V 3.5Ah	90	145	65	660	4-5	N/A	N/A*	6A	13A
<b>BP2607</b>	12V 7Ah	90	145	65	985	N/A	4-6	0h50m	10A	30A
<b>BP2612</b>	12V 12Ah	125	175	80	1765	N/A	7-8	1h30m	10A	40A
<b>BP2616</b>	12V 16Ah	125	175	80	2215	N/A	8-9	1h55m	10A	40A
<b>BP2624</b>	12V 24Ah	138	187	94	2900	N/A	12-13	2h55m	10A	40A

\* BP2603 – only suitable for 75W max. output.

# LITHIUM IRON PHOSPHATE BATTERY PACKS (LiFePO<sub>4</sub>) (with carry handle)



These batteries are ideal for powering motors and where higher output current is needed. LiFePO<sub>4</sub> batteries are the safest battery technology.

These sealed units are waterproof to IP64 standard. They can be used with the neoprene pouch (supplied) or without. A spring loaded grab-handle makes carrying easy.

• **Key features:**

- Extremely lightweight (1/3 weight of Sealed Lead Acid)
- Waterproof to IP64 standard
- Built in fuel gauge
- Longer lasting discharge
- Faster recharge time
- Suitable for many uses up to 30A continuous discharge (using screw terminals)
- Overcharge and short circuit protected
- Temperature Range (charging): 0°C – 40°C
- Temperature Range (discharging): – 10°C – 60°C

• **Highlighted features:**

- 01 Fuel gauge with indicator lights
- 02 Charge port
- 03 Spring loaded handle

• **Safety features:**

Integrated Electronic 'Battery Management System' (BMS) provides the following protection:

- Overcharge & over-discharge protection
- Thermal protection
- Over current protection
- Short circuit protection

• **What's in the box:**

- Neoprene carry case (All models)
- **TR8205** – 4A Charger (12V models only)
- **TR8207** – 2A Charger (24V model only)
- **TR8151** – T-Bar to 12V Cigar Socket (12V models only)
- **TR8145** – T-Bar with Bare Ends (24V model only)



UN 38.3  
Certified



CE Approved



Protected  
against  
overcharge



24 Month  
warranty



Fuel gauge – Waterproof battery condition gauge.



Easy connect function – Snap in t-bar connector.



Neoprene carry case – Protects your investment.



Portable – Easy to transport.



These sealed units are waterproof to IP64 standard.



**Bespoke connections**

Custom made adaptors available. We are able to offer almost any conceivable configuration, adaptor or connection for your LiFePO<sub>4</sub> battery pack. Please contact us with your specific requirements: **t:** 01394 387762

**e:** sales@tracerpower.com

# OPTIONAL ACCESSORIES



**TR8125**  
Eyelets to 12V Cigar  
Socket (0.25m) (supplied  
with 12V models)



**TR8145**  
T-Bar std with Bare Ends  
(0.2m) (supplied with  
24V model)



**TR8146**  
T-Bar std with DC Plug  
2.1 Centre (0.5m)



**TR8147**  
T-Bar std with DC Plug  
2.5 Centre (0.5m)



**TR8148**  
T-Bar std with 1/4"  
(6.35mm) Jack Socket  
(0.2m)



**TR8149**  
T-Bar std to XLR 4 Pin  
(0.2m)



**TR8151**  
T-Bar std to 12V Cigar  
Socket (0.25m)



**TR8152**  
Neutrik Socket to  
Eyelets (0.5m)



**TR8205**  
12V 4A LiFePO<sub>4</sub> Smart  
Charger (supplied with  
12V models)



**TR8206**  
12V 10A Fast Charger  
(Neutrik Plug) (to  
connect to battery  
**TR8152** needed)



**TR8207**  
24V 2A LiFePO<sub>4</sub>  
Smart Charger with  
DC Plug (supplied  
with 24V model)



**TR8208**  
24V 5A Fast charger  
(Neutrik Plug) (to  
connect to battery  
**TR8152** needed)



**TR8180 DC Vehicle Charger**  
Charge from your Vehicle to 12V LiFePO<sub>4</sub>

Tracer have developed a DC to DC charger with a 'Buck Booster' circuit. (1m) (suitable for **BP2564** or **BP2568**) This charger enables the \*LiFePO<sub>4</sub> battery to be charged from a vehicle cigar socket. The input voltage to the buck booster can be from 9-16V DC and the output voltage is stabilised at 14V, the voltage needed to charge a LiFePO<sub>4</sub> battery. Maximum output current is 2A.

\* not to be used on LiPo batteries.



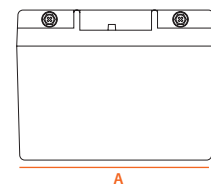
**BP2564**



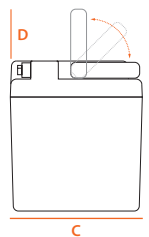
**BP2568**



**BP2578**



**A**



**C**

Code	Model	Dimensions (mm)				Weight (kg)	Charge time (hrs)		Run time (hrs – mins)	Max discharge current	
		A	B	C	D		4A	10A		Continuous	Peak (for 10ms)
<b>BP2564</b>	12V 16Ah	165	125	110	35	2	4-6	2-3	1h55m	30A	90A
<b>BP2568</b>	12V 24Ah	165	160	110	35	2.9	6-8	3-4	2h55m	30A	90A
							2A	5A			
<b>BP2578</b>	24V 8Ah	165	125	110	35	2	4-6	2-3	1h55m	15A	30A



# LITHIUM IRON PHOSPHATE (LiFePO<sub>4</sub>) (battery module with fuel gauge)



These battery modules are for bespoke applications, ideal for fitting to customers' designed equipment. The batteries use prismatic cells that create the lightest weight construction.

Supplied as a battery module with fuel gauge. Customers will need to choose a charger, a case and output leads if required to fit their bespoke equipment.

#### • Key features:

- Extremely lightweight (1/3 weight of Sealed Lead Acid battery)
- Small physical size
- Fuel gauge
- Longer lasting discharge
- Faster recharge time
- Suitable for many uses up to 30 AMP output current
- Overcharge and short circuit protected
- Temperature Range (charging): 0°C – 40°C
- Temperature Range (discharging): – 10°C – 60°C

#### • Highlighted features:

- 01 Fuel gauge with indicator lights

#### • Safety features:

Integrated Electronic 'Battery Management System' (BMS) provides the following protection:

- Overcharge & over-discharge protection
- Thermal protection
- Over current protection
- Short circuit protection

#### • What's in the box:

- Battery Module
- In-line fuel gauge with case

#### • Connections:

Tracer LiFePO<sub>4</sub> Battery Modules are supplied with two bare end wires; one red (+ve) and one black (-ve). These wires are to be used for charging and discharging the battery. A selection of different connectors are available to suit your application. LiFePO<sub>4</sub> Modules require a Neutrik socket to terminal block converter (**TR8158**) to charge via a **TR8206N** or **TR8208N** or **TR8212N**.



UN 38.3  
Certified



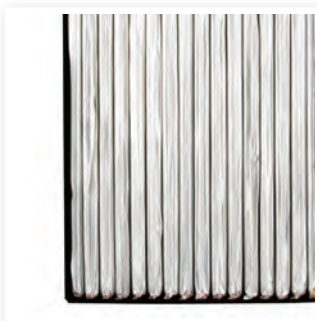
CE Approved



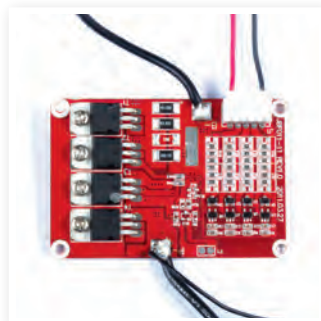
Protected  
against  
overcharge



24 Month  
warranty



Cell construction – Constructed using prismatic cells.



BMS – Typical Internal Protection.



Fuel gauge – Fuel gauge can be mounted externally.



*Extremely lightweight at 1/3 weight of Sealed Lead Batteries.*



#### Bespoke connections

Custom made adaptors available. We are able to offer almost any conceivable configuration, adaptor or connection for your LiFePO<sub>4</sub> battery pack. Please contact us with your specific requirements: **t:** 01394 387762  
**e:** sales@tracerpower.com



## OPTIONAL ACCESSORIES



**TR8156**  
Neutrik Plug to Bare  
Ends (1m)



**TR8157**  
Neutrik Plug to XLR 4 Pin  
(0.5m)



**TR8158**  
Neutrik Socket to  
terminal block (0.5m)  
use on battery module



**TR8159**  
Neutrik Plug



**TR8160**  
Neutrik Socket



**TR8206N**  
12V 10A Fast charger  
(Neutrik Plug)  
(to connect to battery  
**TR8158** is needed)



**TR8208N**  
24V 5A Fast charger  
(Neutrik Plug)  
(to connect to battery  
**TR8158** is needed)



**TR8212N**  
12V 20A Ultra-Fast charger  
(Neutrik Plug) (to connect  
to battery **TR8158** is  
needed) Can be used  
for all 12V models



**BP2570**



**BP2574**



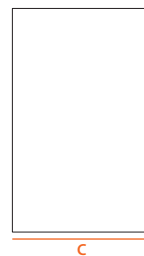
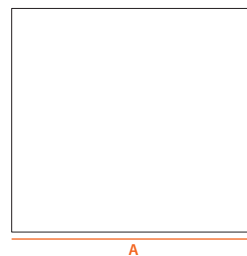
**BP2576**



**BP2577**



**BP2580**



Code	Model	Dimensions (mm)			Weight (kg)	Charge time (hrs)		Run time (hrs – mins) 100W	Max discharge current	
		A	B	C		12V 10A	12V 20A		Continuous	Peak (for 10ms)
<b>BP2570</b>	12V 40Ah	215	145	90	4.6	5-7	3-5	4h50m	30A	60A
<b>BP2574</b>	12V 80Ah	216	148	179	9.1	12-15	6-9	9h40m	30A	60A
<b>BP2576</b>	12V 100Ah	200	156	244	11.3	14-18	9-14	12h00m	30A	60A
<b>BP2577</b>	12V 170Ah	368	286	118	18	22-30	13-18	20h25m	30A	60A
						<b>24V 2A</b>	<b>24V 5A</b>			
<b>BP2580</b>	24V 20Ah	216	150	100	4.6	10-12	5-7	4h50m	30A	60A



## LITHIUM IRON PHOSPHATE BATTERY PACKS (LiFePO<sub>4</sub>)

(IP67 Waterproof Peli™ Case Kit using Amphenol Circular MIL Spec Connector system)

**Professional power packs housed within a protective Peli™ Case. These battery packs are the portable solution, easy to carry and install.**

A robust IP67 Waterproof standard case has been pre wired. Built using Amphenol Circular MIL Spec Connector system offering full IP67 protection. The batteries use prismatic cells that create the lightest weight construction. Supplied with built-in internal fuel gauge and charger.

### • Key features:

- Peli™ Case housing
- Built-in internal Fuel Gauge
- Wired and ready to use
- Two Amphenol sockets fitted to case
- Longer lasting discharge
- Faster recharge time
- IP67 Waterproof standard
- Up to 30A output, by using **TR8185**
- Overcharge and short circuit protected
- Temperature Range (charging): 0°C – 40°C
- Temperature Range (discharging): – 10°C – 60°C

### • Highlighted features:

- 01** Easy carry
- 02** IP67 Waterproof standard casing

### • Safety features:

Integrated Electronic 'Battery Management System' (BMS) provides the following protection:

- Overcharge & over-discharge protection
- Thermal protection
- Over current protection
- Short circuit protection

### • What's in the box:

- Peli™ Case Kit
- **TR8186** Amphenol Plug to Bare Ends (1m)
- Charger

**BP2785** comes with:

- **TR8208A** – 24V 5A LiFePO<sub>4</sub> Smart Charger (Amphenol Plug)

**BP2786 & BP2788** comes with:

- **TR8206A** – 12V 10A Fast Charger (Amphenol Plug)

**BP2789 & BP2790** comes with:

- **TR8212A** – 12V 20A Ultra-Fast Charger (Amphenol Plug)

### • 30 Amp output solution:

If the output current required is greater than 20A use **TR8185** to achieve up to 30A.



UN 38.3  
Certified



CE Approved



Protected  
against  
overcharge



24 Month  
warranty



IP67  
Waterproof  
Peli™ Case  
Kit



IP67 waterproof standard case – Protects against water penetration.



Wired fuel gauge – Internal fuel gauge for easy battery condition check.



Peli™ Case – Robust carry case.



Amphenol Connection – Two wired outputs / charge sockets.



*Portable power that is easy to carry and install.*



### Bespoke connections

Custom made adaptors available. We are able to offer almost any conceivable configuration, adaptor or connection for your LiFePO<sub>4</sub> battery pack. Please contact us with your specific requirements: **t:** 01394 387762  
**e:** sales@tracerpower.com

## OPTIONAL ACCESSORIES



### TR8185

Twin Amphenol output lead to achieve 30A output current



### TR8186

Amphenol Plug to bare ends (1m)



### TR8187

Amphenol Plug



### TR8188

Amphenol Socket



### TR8206A

12V 10A LiFePO<sub>4</sub> Fast Smart Charger (Amphenol Plug)



### TR8208A

24V 5A LiFePO<sub>4</sub> Fast Smart Charger (Amphenol Plug)



### TR8212A

12V 20A LiFePO<sub>4</sub> Ultra-Fast Smart Charger (Amphenol Plug)



BP2785



BP2786



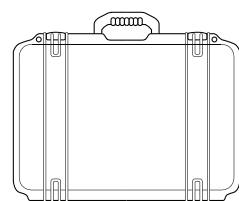
BP2788



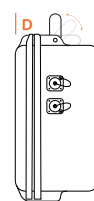
BP2789



BP2790



A



C

Code	Model	Dimensions (mm)				Weight (kg)	Charge time (hrs)		Run time (hrs – mins) 100W	Max discharge current	
		A	B	C	D		12V 10A	12V 20A		Continuous	Peak (for 10ms)
BP2786	12V 40Ah	300	249	119	50	6	5-7	3-5	4h50m	30A	60A
BP2788	12V 80Ah	411	322	168	50	10.8	12-15	6-9	9h40m	30A	60A
BP2789	12V 100Ah	411	322	168	50	13.2	14-18	9-14	12h00m	30A	60A
BP2790	12V 170Ah	462	340	170	50	22	22-30	13-18	20h25m	30A	60A
							24V 2A	24V 5A			
BP2785	24V 20Ah	300	249	119	50	6	10-12	5-7	4h50m	30A	60A

#### Contact details

Call: 01394 387762

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