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LITHIUM POLYMER POWER 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)
- Smallest physical size
- Built in LED 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

• **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** – Bullet right angle to 12V Socket (0.2m lead)
- **TR8136** – 1.65A AC Mains charger (UK, EU, AU & US adaptors)
- **TR8137** – DC Vehicle charger

[Watch our Unboxing Video](#)



**UN38.3
Certified**

CE Approved

Protected against overcharge

12 Month warranty

RoHS Compliant

Highlighted features:



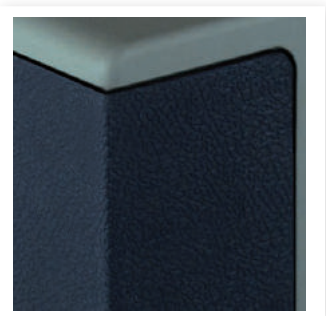
- 01 12V Charge port.
02 12V Output (Bullet).
03 LED Fuel gauge.



Lightweight.



Supplied with AC Mains charger, 12V DC charger, 12V Output connector.



Soft grip texture – Non slip rubber, robust ABS casing.



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



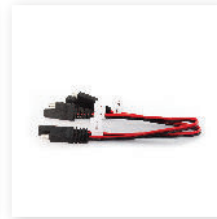
OPTIONAL ACCESSORIES



TR8129
Bullet straight adaptor cable to bare ends (1m lead)



TR8132
Bullet right angle to 12V socket (0.2m lead)



TR8166
Bullet parallel connector (0.2m lead)



TR8134
Bullet straight to right angle (0.2m lead)



TR8139
Bullet straight to 12V socket (0.2m lead)



TR8140
Bullet right angle adaptor cable to bare ends (1m lead)



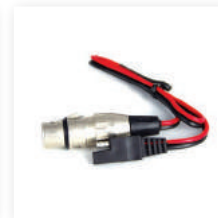
TR8141
Bullet adaptor cable to DC plug 2.1mm centre (0.5m lead)



TR8142
Bullet adaptor cable to DC plug 2.5mm centre (0.5m lead)



TR8143
Bullet adaptor cable to 1/4" (6.35mm) Jack socket (0.2m lead) (Cluson style)



TR8144
Bullet adaptor cable to XLR 4 Pin (0.5m lead)



TR8165
Bullet to Hirose plug (0.3m lead)



TR8167
DC Converter 12V to 5V USB lead (1m lead)



TR8136
12V 1.65A LiPo Mains charger with UK, EU, AU & US adaptors (1m lead)



TR8137
12V DC Vehicle charger (1m lead)



TR8138 - (Half your charge time!)
12V 3A Fast charger (UK & EU leads) (Not for use on BP2541)



Code	Model	Dimensions (mm)			Weight (g)	Charge time (hrs)		Run time (hrs) 100W	Max discharge current	
		A	B	C		1.65A	3A		Continuous	Peak (for 10ms)
BP2541	12V 4Ah	76	115	32	360	2-3	N/A	N/A*	4A	20A
BP2544	12V 8Ah	80	152	38	600	8-12	4-6	0.75	8A	30A
BP2545	12V 10Ah	80	152	48	735	9-14	4-7	1	10A	30A
BP2546	12V 14Ah	115	161	56	950	10-16	5-8	1.5	10A	30A
BP2548	12V 22Ah	115	161	56	1250	14-20	7-10	2	10A	30A

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

LITHIUM IRON PHOSPHATE POWER PACKS (LiFePO₄)



CYCLE LIFE:
1400 CYCLES

This LiFePO₄ battery range developed by Tracer is 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 LED 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:**

- Canvas carry case
- TR8205 – 4A AC Mains charger
- TR8132 – Bullet R/A to 12V socket

[Watch our Unboxing Video](#)



CE Approved



Protected against overcharge



12 Month warranty



RoHS Compliant

UN38.3 Certified

Highlighted features:



Charge port with dust cover.



LED Fuel gauge with indicator lights
Waterproof battery condition gauge.



Easy connect function – Snap in Bullet output.



Soft grip texture – Non slip rubber, robust ABS casing.



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



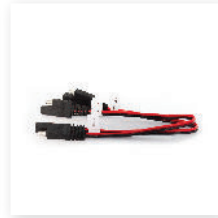
OPTIONAL ACCESSORIES



TR8129
Bullet straight adaptor cable to bare ends (1m lead)



TR8132
Bullet right angle to 12V socket (0.2m lead)



TR8166
Bullet parallel connector (0.2m lead)



TR8134
Bullet straight to right angle (0.2m lead)



TR8139
Bullet straight to 12V socket (0.2m lead)



TR8140
Bullet right angle adaptor cable to bare ends (1m lead)



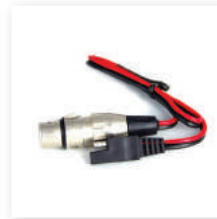
TR8141
Bullet adaptor cable to DC plug 2.1mm centre (0.5m lead)



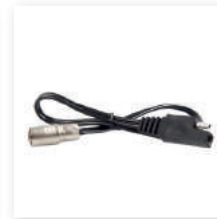
TR8142
Bullet adaptor cable to DC plug 2.5mm centre (0.5m lead)



TR8143
Bullet adaptor cable to 1/4" (6.35mm) Jack socket (0.2m lead) (Cluson style)



TR8144
Bullet adaptor cable to XLR 4 Pin (0.5m lead)



TR8165
Bullet to Hirose plug (0.3m lead)



TR8167
DC Converter 12V to 5V USB lead (1m lead)



TR8205
12V 4A LiFePO₄ Smart charger (UK & EU 1m leads). Supplied



TR8180 DC Vehicle Charger
Charge from your Vehicle to 12V LiFePO₄
Tracer have developed a DC to DC charger with a 'Buck Booster' circuit. (1m lead)
This charger enables the *LiFePO₄ battery to be charged from a vehicle 12V 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 LiFePO₄ 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)		Max discharge current	
		A	B	C		12V 4A	100W	Continuous	Peak (for 10ms)		
BP2607-II	12V 7Ah	93	145	65	985	4-6	1	10A	30A		
BP2616-II	12V 16Ah	131	176	82	2215	8-9	2	10A	40A		
BP2624-II	12V 24Ah	138	187	94	2900	12-13	3	10A	40A		

LITHIUM IRON PHOSPHATE BATTERY PACKS (LiFePO₄)

With spring loaded grab-handle.



These batteries are ideal for powering motors and where higher output current is needed. LiFePO₄ batteries are the safest battery technology.

These sealed units are waterproof to IP64 standard. They can be used with the neoprene pouch (sold separately). 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

• 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:

- TR8205 – 4A charger (12V models only)
- TR8207 – 2A charger (24V model only)
- TR8404 – EC5 to bare ends



UN38.3 Certified

CE Approved Protected against overcharge

12 Month warranty

RoHS Compliant

Highlighted features:



Charge port with dust cover.



LED Fuel gauge with indicator lights. Waterproof battery condition gauge.



Easy connect function – EC5 connector, 2x USB, 1x USB C, +/-Screw Terminals



Spring loaded grab-handle – Easy to transport. (Neoprene pouch optional extra)



These sealed units are waterproof to IP64 standard.



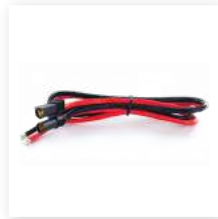
OPTIONAL ACCESSORIES



TR8125
Eyelets to 12V
socket (0.25m lead)



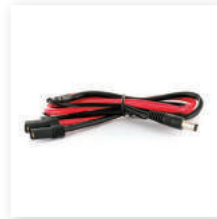
TR8152
Neutrik socket to
eyelets (0.5m lead)



TR8404
EC5 to bare ends
(0.5m lead)



TR8405
EC5 to DC plug
2.5mm centre
(0.5m lead)



TR8409
EC5 to DC plug
2.1mm centre
(0.5m lead)



TR8205
12V 4A LiFePO₄
Smart charger (UK &
EU 1m
leads). Supplied with
12V models



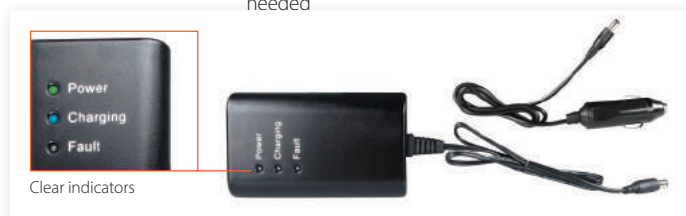
TR8206N
12V 10A Fast charger
with Neutrik plug
(UK & EU 1m leads).
To connect to
battery **TR8152**
needed



TR8207
24V 2A LiFePO₄
Smart charger (UK &
EU 1m leads).
Supplied with 24V
model



TR8208N
24V 5A Fast charger
with Neutrik plug
(UK & EU 1m leads).
To connect to
battery **TR8152**
needed



TR8180
DC to DC charger with a 'Buck Booster' circuit. (1m lead) (Excluding
BP2578). Please see page 05 for full description.



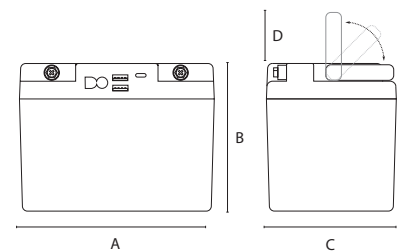
BP2564



BP2568



BP2578



Code	Model	Dimensions (mm)				Weight (kg)	Charge time (hrs)		Run time (hrs) 100W	Max discharge current	
		A	B	C	D		4A	10A		Continuous	Peak (for 10ms)
BP2564	12V 16Ah	165	125	110	35	2	4-6	2-3	2	30A	90A
BP2568	12V 24Ah	165	160	110	35	2.9	6-8	3-4	3	30A	90A
BP2578	24V 8Ah	165	125	110	35	2	4-6	2-3	2	15A	30A



LITHIUM-ION PORTABLE CARRY CASE KITS (Li-ion)

IP67 rated strong and robust carry case kit. Illuminated digital display and USB connection.



CYCLE LIFE: 500 CYCLES

These Li-ion portable carry case battery kits are supplied fully wired, complete with a smart charger and multiple outputs, including USB.

The technology used provides a lightweight compact attractively priced battery, which is ideal for a variety of mobile solutions. A digital battery meter indicates battery charge state. The batteries have been certified to UN38.3 safety standards and are CE and RoHS approved.

• 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:

- IP67 rated strong and robust carry case
- TR8215 – 10A Fast charger
- TR8305 – Male plug with 1m lead
- Outlet eyelets – 14awg

• Key features:

- Robust IP67 rated case
- Lightweight and compact
- Wired and ready to use
- Rapid recharging (up to 20A)
- 20A output choices (2 options)
- 12V socket (rated 10A)
- USB sockets x2 (2.1A & 1A)
- Illuminated battery meter – displays battery charge status
- Typical 500 cycles
- 12 month warranty
- Fully certified for safe use



CE Approved Protected against overcharge



12 Month warranty



RoHS Compliant

UN38.3 Certified

Bespoke connections

Custom made adaptors available. We are able to offer almost any conceivable configuration, adaptor or connection for your Li-ion battery pack. Please contact us with your specific requirements: t: 0191 496 9988 e: info@tracerpower.com

Highlighted features:



- 01 5V USB Output socket x2 (2.1A & 1A).
- 02 12V socket (rated 10A).
- 03 Battery charge meter, clear illuminated digital display.
- 04 USB and Fuel gauge power switch.



- 05 CH2F socket for Charge / discharge (rated 20A).
- 06 Output Terminal posts rated 20A.



A feature rich portable carry case kit that will give you power in any environment.



OPTIONAL ACCESSORIES



TR8304
PL2M 20A Male plug



TR8305
PL2M 20A Male plug
with cable to bare ends
(1m lead)



TR8306
PL2F 20A Female plug



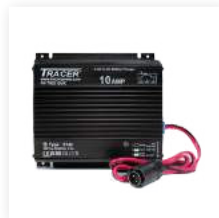
TR8307
PL2F 20A Female with
cable to bare ends plug
(1m lead)



TR8308
CH2F 20A Female
chassis socket



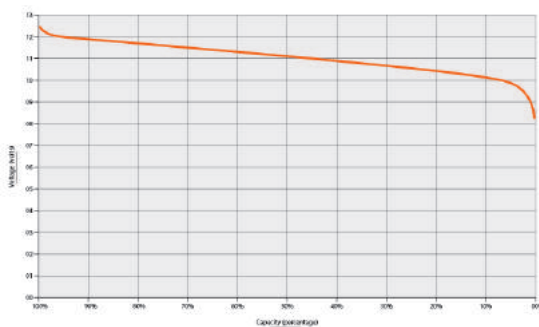
TR8310
Terminal posts x2
(red & black) with eyelets



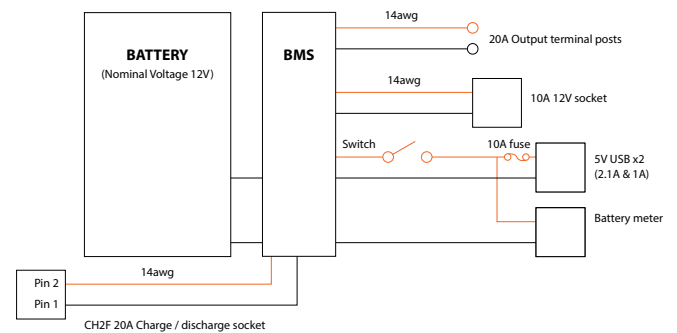
TR8215
12V 10A Fast charger
(UK & EU 1m leads)

Discharge Curve (typical)

Flat discharge curve - constant power for longer.



Circuit diagram



BP2905



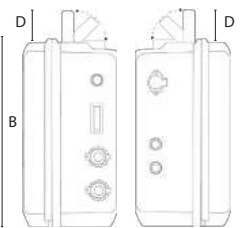
BP2910



BP2915



A



C

C

Code	Model	Dimensions (mm)				Weight (kg)	Charge time (hrs) 12V 10A	Run time (hrs) 100W	Max discharge current	
		A	B	C	D				Continuous	Peak (for 10ms)
BP2905	12V 50Ah	336	300	148	55	6	7	6	20A	50A
BP2910	12V 100Ah	464	366	176	60	9	13	12	20A	50A
BP2915	12V 150Ah	464	366	176	60	12	20	18	20A	50A

LITHIUM-ION BATTERY MODULE (Li-ion)

Battery module with multiple output leads and a LED Fuel gauge.



Lithium-ion battery modules offer extremely portable and lightweight power solutions, ideal for installing within equipment or a portable case. The multiple connections and LED Fuel gauge offer great flexibility of use.

Supplied as battery module with multiple output leads and a fuel gauge. Customers will need to choose a charger and connections to fit their bespoke equipment.

• 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
- TR8300 – In-line LED Fuel gauge
- TR8308 – CH2F Charge / discharge socket (rated 20A)
- TR8309 – 12V socket (rated 10A)
- TR8310 – Terminal posts (x2) with eyelets

• Connections:

Tracer Li-ion Battery Modules are supplied with several wired connectors. The supplied CH2F chassis mount socket can be used for output or charging and connects with the PL2M plugs fitted to all compatible chargers. The 12V socket offers familiar connectivity to a wide-range of 12V devices. TR8310 provides terminal posts with eyelets for a 20A output connection.



UN38.3 Certified

• Key features:

- Extremely lightweight (1/4 weight of Sealed Lead Acid battery)
- Small physical size
- Fuel gauge
- Longer lasting discharge
- Faster recharge time
- Suitable for many uses up to 20 AMP output current
- Overcharge and short circuit protected
- Temperature range (charging): 0°C – 45°C
- Temperature range (discharging): -10°C – 60°C

Highlighted features:



LED Fuel gauge with indicator lights.



CH2F 20A Charge / discharge socket supplied.



Prewired with 10A 12V socket, eyelet crimps, charge socket and LED Fuel gauge connections.



Supplied as a battery module with multiple output leads.



Bespoke connections

Custom made adaptors available. We are able to offer almost any conceivable configuration, adaptor or connection for your Li-ion battery pack. Please contact us with your specific requirements: **t:** 0191 496 9988
e: info@tracerpower.com

OPTIONAL ACCESSORIES



TR8302
USB chassis socket



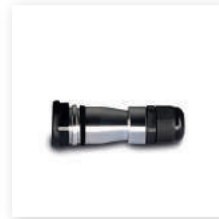
TR8303
Push button switch



TR8304
PL2M 20A Male plug



TR8305
PL2M 20A Male plug
with cable to bare ends
(1m lead)



TR8306
PL2F 20A Female plug



TR8307
PL2F 20A Female plug
with cable to bare ends
(1m lead)



TR8308
CH2F 20A Female
chassis socket



TR8309
12V 10A chassis socket



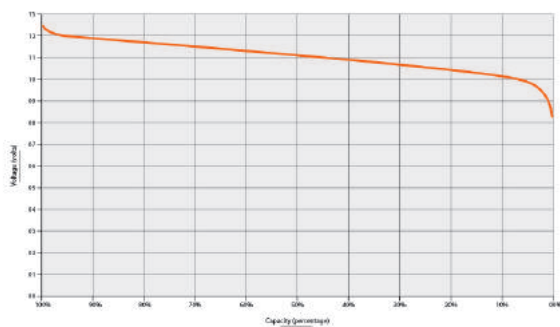
TR8310
Terminal posts x2
(red & black) with eyelets



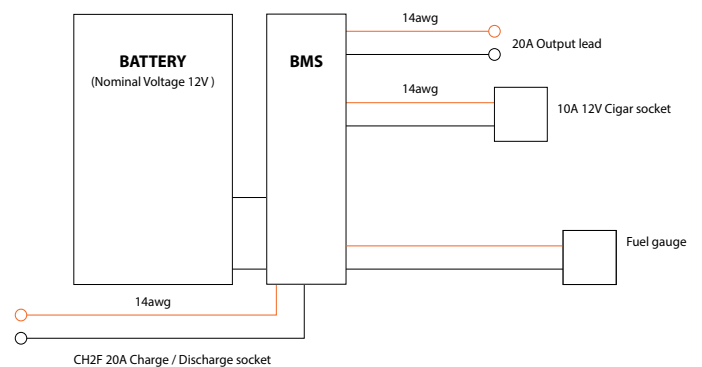
TR8215
12V 10A Fast charger
(UK & EU 1m leads)

Discharge Curve (typical)

Flat discharge curve - constant power for longer.



Circuit diagram



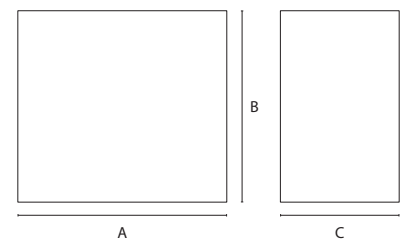
BP2805



BP2810



BP2815



Code	Model	Dimensions (mm)			Weight (kg)	Charge time (hrs)		Run time (hrs)	Max discharge current	
		A	B	C		12V 10A	100W		Continuous	Peak (for 10ms)
BP2805	12V 50Ah	133	202	74	3.3	7	6	20A	50A	
BP2810	12V 100Ah	242	215	73	6	13	12	20A	50A	
BP2815	12V 150Ah	310	242	73	9	20	18	20A	50A	



LITHIUM IRON PHOSPHATE CARRY CASE KITS (LiFePO₄)

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 LED Fuel gauge and charger.

• Key features:

- Peli™ Case
- Built-in internal LED 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

• 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
- **BP2785** – 24V 5A LiFePO₄ Smart charger
- **BP2786 & BP2788** – 12V 10A Fast charger
- **BP2789 & BP2790** – 12V 20A Ultra-Fast charger
- **TR8186** Amphenol plug to bare ends

• 30 Amp output solution:

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



UN38.3 Certified



CE Approved



Protected against overcharge



12 Month warranty



IP67 Waterproof Peli™ Case Kit



RoHS Compliant

Watch our Unboxing Video

Highlighted features:



IP67 Waterproof standard case – Protects against water penetration.



Wired internal LED 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 LiFePO₄ battery pack. Please contact us with your specific requirements: **t: 0191 496 9988**
e: info@tracerpower.com

OPTIONAL ACCESSORIES



TR8185
Twin Amphenol output lead to achieve 30A output current (0.5m lead)



TR8186
Amphenol plug to bare ends (1m lead)



TR8187
Amphenol plug



TR8188
Amphenol socket



TR8407
Amphenol Chassis Socket Kit



TR8206A
12V 10A LiFePO₄ Fast Smart charger (UK & EU 1m leads)



TR8208A
24V 5A LiFePO₄ Fast Smart charger (UK & EU 1m leads)



TR8212A
12V 20A LiFePO₄ Ultra-Fast Smart charger (UK & EU 1m leads)



BP2785



BP2786



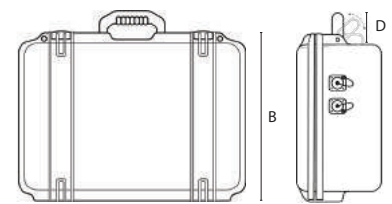
BP2788



BP2789



BP2790



A

C

Code	Model	Dimensions (mm)				Weight (kg)	Charge time (hrs)		Run time (hrs) 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	5	30A	60A
BP2788	12V 80Ah	411	322	168	50	10.8	12-15	6-9	9	30A	60A
BP2789	12V 100Ah	411	322	168	50	13.2	14-18	9-14	12	30A	60A
BP2790	12V 170Ah	462	340	170	50	22	22-30	13-18	20	30A	60A
24V 5A											
BP2785	24V 20Ah	300	249	119	50	6		5-7	5	30A	60A

LITHIUM IRON PHOSPHATE (LiFePO₄)

Battery module with LED 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

• 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 LED Fuel gauge

• Connections:

Tracer LiFePO₄ 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. LiFePO₄ Modules require a Neutrik socket converter (TR8158, TR8159 or TR8162) to charge via a TR8206N or TR8208N or TR8212N.



CE Approved
Protected against overcharge



12 Month warranty



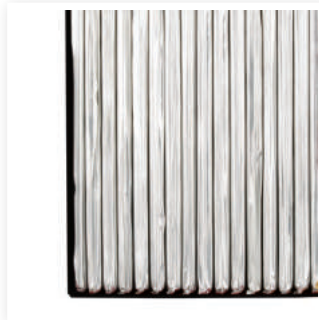
RoHS Compliant

UN38.3 Certified

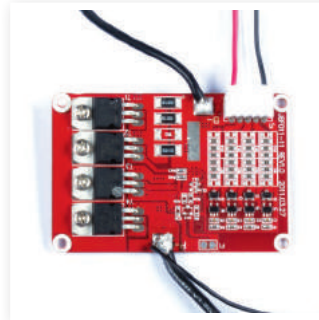
Highlighted features:



LED Fuel gauge with indicator lights. Can be mounted externally.



Cell construction – Constructed using prismatic cells.



BMS – Typical Internal Protection.



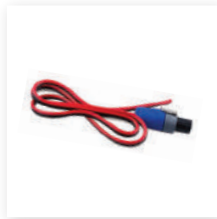
Extremely lightweight at 1/3 weight of Sealed Lead Batteries.



Bespoke connections

Custom made adaptors available. We are able to offer almost any conceivable configuration, adaptor or connection for your LiFePO₄ battery pack. Please contact us with your specific requirements: **t:** 0191 496 9988
e: info@tracerpower.com

OPTIONAL ACCESSORIES



TR8156
Neutrik plug to bare ends (1m lead)



TR8157
Neutrik plug to XLR 4 Pin (0.5m lead)



TR8158
Neutrik socket to terminal block (0.5m lead) use on battery module



TR8159
Neutrik plug



TR8160
Neutrik socket



TR8162
Neutrik chassis socket with bung



TR8206N
12V 10A Fast charger (UK & EU 1m leads). To connect to battery **TR8158** is needed



TR8208N
24V 5A Fast charger (UK & EU 1m leads). To connect to battery **TR8158** is needed



TR8212N
12V 20A Ultra-Fast charger (UK & EU 1m leads). To connect to battery **TR8158** is needed. Can be used for all 12V models



BP2570



BP2574



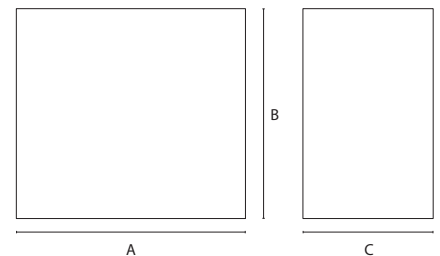
BP2576



BP2577



BP2580



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