



Enigma's Product Catalogue

The Enigma Encoding Company Ltd

Tel : 01832 274963 **Email :** admin@enigmasecurity.co.uk

Website: www.enigmasecurity.co.uk

All dimensions and sizes are approximate, renderings are an artist's conception and are intended as a general reference only E&O.E

April 26



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Enigma's
Lithium Ion - NMC
Light Weight
Battery Range
with up to 2000 charge and
discharge cycles

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Fact Sheet

Lithium Ion Battery

34 Ah



Light Weight for Carrying by Hand Or in a Vehicle

Electrical		
No	Items	Description
1	Voltage	9 to 12.6 Volts
2	Nominal Capacity	34Ah
3	Watt Hours	367.2Wh
4	Chemistry	Lithium Ion - NMC 2000 cycles
5	Recommended Charge Current	20 amp or by request
6	Max Discharge	20 amp or by request
7	Charge Temperature	0 to 45 degrees C
8	Discharge Temperature	-20 to 60 degrees C
9	Unique Advanced Voltage Reader (See picture)	Shows voltage, current draw, time to discharge, time to charge

Safety Specification		
No	Items	Description
10	Fire Protection	Built in Fire Suppression Protection

Safety Certification		
No	Items	Description
11	Cells	UN38.3 tested and Certificated
12	Complete Battery	UN38.3 tested and CE & UKCA Certificated
13	Safety Certification Package Materials	Protective foam -Shock Absorbency UL94 ED6 and Flame Retarded

Shipping requirements		
No	Items	Description
14	Shipping Standard	Batteries shipped as Class 9 UN3480
15	Boxes	4G UN approved box
16	Packaging	Packed and shipped UN3840



Physical specifications		
No	Items	Description
17	Housing	Peli case 1150 IP67 or Custom Metal Housing IP54
18	Size (case)	215 x 150 x 94 mm
19	Weight	4KG

Accessories		
No	Items	Description
20	Connectors	Metal Military style sockets, or customer specified if required
21	Ultra Flexi Module	Parallel up batteries to share capacity <i>SAFELY</i>
22	Angel Module	To allow GSM comms with the battery from the Users <i>OVER AIR</i>
23	2 x USB Output (option)	5 volt output for Phone or Laptop USB
24	Solar Charging	200 or 400 watts using 'The Pheonix'

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Fact Sheet

Lithium Ion Battery

67
Ah



Light Weight for Carrying by Hand Or in a Vehicle

Electrical		
No	Items	Description
1	Voltage	9 to 12.6 Volts
2	Nominal Capacity	67Ah
3	Watt Hours	723.6Wh
4	Chemistry	Lithium Ion – NMC 2000 cycles
5	Recommended Charge Current	20 amp or by request
6	Max Discharge	20 amp or by request
7	Charge Temperature	0 to 45 degrees C
8	Discharge Temperature	-20 to 60 degrees C
9	Advanced Voltage Reader (See picture)	Shows voltage, current draw, time to discharge, time to charge

Safety Specification		
10	Fire Protection	Built in Fire Suppression Protection

Safety Certification		
11	Cells	UN38.3 tested and Certificated
12	Complete Battery	UN38.3 tested and CE & UKCA Certificated
13	Safety Certification Package Materials	Protective foam -Shock Absorbency UL94 ED6 and Flame Retarded

Shipping requirements		
14	Shipping Standard	Batteries shipped as Class 9 UN3480
15	Boxes	4G UN approved box
16	Packaging	Packed and shipped to UN3480



Physical specifications		
No	Items	Description
17	Housing	Peli case 1200 IP67
18	External Size (case)	270 x 246 x 124mm approx.
19	Weight	5.5KG

Accessories		
20	Connectors	Metal Military style sockets, or customer specified if required
21	Ultra Flexi Module	Parallel up batteries to share capacity <i>SAFELY</i>
22	Angel Module	To allow GSM comms with the battery from the Users <i>OVER AIR</i>
23	2 x USB Output (option)	5 volt output for Phone or Laptop USB
24	Solar Charging	200 or 400 watts using 'The Pheonix'

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Fact Sheet

Lithium Ion Battery

**172
Ah**



Light Weight for Carrying by Hand Or in a Vehicle



Electrical		
No	Items	Description
1	Voltage	9 to 12.6 Volts
2	Nominal Capacity	172Ah
3	Watt Hours	1909.2Wh
4	Chemistry	Lithium Ion – NMC 2000 cycles
5	Recommended Charge Current	20 amp or by request
6	Max Discharge	20 amp or by request
7	Charge Temperature	0 to 45 degrees C
8	Discharge Temperature	-20 to 60 degrees C
9	Advanced Voltage Reader (See picture)	Shows voltage, current draw, time to discharge, time to charge



Safety Specification		
10	Fire Protection	Built in Fire Suppression Protection

Safety Certification		
11	Cells	UN38.3 tested and Certificated
12	Complete Battery	UN38.3 tested and CE & UKCA Certificated
13	Safety Certification Package Materials	Protective foam -Shock Absorbency UL94 ED6 and Flame Retarded

Shipping requirements		
14	Shipping Standard	Batteries shipped as Class 9 UN3480
15	Boxes	4G UN approved box
16	Packaging	Packed and shipped to UN3480

Physical specifications

No	Items	Description
17	Housing	Peli case 1400 IP67 or Max 300 IP67
18	External Size (case)	336 x 300 x 148mm approx.
19	Weight	11.5KG

Accessories

20	Connectors	Metal Military style sockets, or customer specified if required
21	Ultra Flexi Module	Parallel up batteries to share capacity <i>SAFELY</i>
22	Angel Module	To allow GSM comms with the battery from the Users <i>OVER AIR</i>
23	2 x USB Output (option)	5 volt output for Phone or Laptop USB
24	Solar Charging	200 or 400 watts using 'The Pheonix'

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Fact Sheet

Lithium Ion Battery

250 Ah



Electrical		
No	Items	Description
1	Voltage	9 to 12.6 Volts
2	Nominal Capacity	250 Ah
3	Watt Hours	2700 Wh
4	Chemistry	Lithium Ion - NMC
5	Recommended Charge Current	20 amp or by request
6	Max Discharge	20 amp or by request
7	Charge Temperature	0 to 45 degrees C
8	Discharge Temperature	-20 to 60 degrees C
9	Advanced Voltage Reader (See picture)	Shows voltage, current draw, time to discharge, time to charge

Safety Specification		
10	Fire Protection	Built in Fire Suppression Protection

Safety Certification		
11	Cells	UN38.3 tested and Certificated
12	Complete Battery	UN38.3 tested and CE & UKCA Certificated
13	Safety Certification Package Materials	Protective foam -Shock Absorbency UL94 ED6 and Flame Retarded

Shipping requirements		
14	Shipping Standard	Batteries shipped as Class 9 UN3480
15	Boxes	4G UN approved box
16	Packaging	Packed and shipped to UN3480

Physical specifications		
No	Items	Description
17	Housing	Peli case 1450 IP67 / Max 380
18	Size (case)	Peli 409 x 331 x 175 mm Max 414 x 315 x 174 mm
19	Weight	16.1KG
20	Light Weight	Hand Carriable

Addable Options		
21	Connectors	Metal Military style sockets, or customer specified if required
22	Ultra Flexi Module (Standard)	Parallel up batteries to share capacity SAFELY
23	Angel Module (Option)	To allow GSM comms with the battery from the Users OVER AIR
24	2 x USB Output (Standard)	5 volt output for Phone or Laptop USB
25	Stand Alone Solar Charging (option)	Pheonix – A stand alone control box and solar panel can be plugged into a standard battery pack to provide solar charging 200 or 400 watts

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Fact Sheet

Lithium Ion Battery

344 Ah



Electrical		
No	Items	Description
1	Voltage	9 to 12.6 Volts
2	Nominal Capacity	344 Ah
3	Watt Hours	3715 Wh
4	Chemistry	Lithium Ion - NMC
5	Recommended Charge Current	20 amp or by request
6	Max Discharge	20 amp or by request
7	Charge Temperature	0 to 45 degrees C
8	Discharge Temperature	-20 to 60 degrees C
9	Advanced Voltage Reader (See picture)	Shows voltage, current draw, time to discharge, time to charge

Safety Specification		
10	Fire Protection	Built in Fire Suppression Protection

Safety Certification		
11	Cells	UN38.3 tested and Certificated
12	Complete Battery	UN38.3 tested and CE & UKCA Certificated
13	Safety Certification Package Materials	Protective foam -Shock Absorbency UL94 ED6 and Flame Retarded

Shipping requirements		
14	Shipping Standard	Batteries shipped as Class 9 UN3480
15	Boxes	4G UN approved box
16	Packaging	Packed and shipped to UN3480

Physical specifications		
No	Items	Description
17	Housing	Max 380
18	Size (case)	414 x 315 x 174 mm
19	Weight	20.2KG
20	Lightweight	Hand Carriable
21	Charging Socket	2 x sockets for faster charging



Accessories		
22	Connectors	Metal Military style sockets, or customer specified if required
23	Ultra Flexi Module (Standard)	Parallel up batteries to share capacity SAFELY
24	Angel Module (Option)	To allow GSM comms with the battery from the Users OVER AIR
25	2 x USB Output (standard)	5 volt output for Phone or Laptop USB
26	Stand Alone Solar Charging (option)	Phoenix – A stand alone control box and solar panel can be plugged into a standard battery pack to provide solar charging. 200 or 400 watts

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Fact Sheet Battery Vault

500 & 750 Ah



Electrical		
No	Items	Description
1	Voltage	9 to 12.6 Volts
2	Nominal Capacity	250 / 500 / 750 Ah
3	Watt Hours	2700 / 5400 / 8100 Wh
4	Chemistry	Lithium – Nickel Manganese - Cobalt - 2000 cycles
5	Recommended Charge Current	20 amp or by request
6	Max Discharge	20 amp or by request
7	Charge Temperature	0 to 45 degrees C
8	Discharge Temperature	-20 to 60 degrees C
9	Advanced Voltage Reader (See picture)	Shows voltage, current draw, time to discharge, time to charge
10	Charging	Internal charger

Physical specifications		
11	Housing	Max 540 wheeled case
12	Size (case)	604 x 473 x 283 mm
13	Weight	750Ah - Approx. 45KG
14	Wheeled case	For rapid deployment
15	Socket	Waterproof mains connection and option for solar socket

Electrical		
16	Connectors	Metal Military style sockets, or customer specified if required
17	Ultra Flexi Module Unique (Standard)	Parallel up batteries to share capacity SAFELY
18	Angel Module (Option)	To allow GSM comms with the battery from the Users OVER AIR
19	USB Output	2 x USB A and 2 X USB C sockets
20	Internal Solar Charging (Option)	Pheonix solar option built within the case
21	UPS	Inbuilt UPS – provides an option for running off the mains and using the battery as a backup energy reservoir
22	Solar Charging Option)	200 or 400 watts using 'The Pheonix'

Safety Specification		
23	Unique Fire Protection	Built in Fire Suppression Protection



Safety Certification		
24	Cells	UN38.3 tested and Certificated
25	Complete Battery	UN38.3 tested and CE & UKCA Certificated
26	Safety Certification Package Materials	Protective foam -Shock Absorbency UL94 ED6 and Flame Retarded

Shipping requirements		
27	Shipping Standard	Batteries shipped as Class 9 UN3480
28	Boxes	4G UN approved box
29	Packaging	Packed and shipped to UN3480

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Enigma's Life PO4 Battery Range

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Fact Sheet 50 Ah 12V LiFePO4 Battery



Electrical		
No	Items	Description
1	Nominal Voltage	12.8 Volts
2	Nominal Capacity	50Ah
3	Watt Hours	640Wh
4	Chemistry	Life PO4
5	Recommended Charge current Voltage	10 amps 14.6V
6	Max Discharge	35 amp or by request
7	Charge Temperature	0 to 45 degrees C
8	Discharge Temperature	-20 to 60 degrees C
9	Advanced Voltage Reader (See picture)	Shows voltage, current draw, time to discharge, time to charge

Safety Specification		
10	Fire Protection	Built in Fire Suppression Protection

Safety Certification		
11	Cells	UN38.3 tested and Certificated
12	Complete Battery	UN38.3 tested and CE & UKCA Certificated
13	Safety Certification Package Materials	Protective foam -Shock Absorbency UL94 ED6 and Flame Retarded

Shipping requirements		
14	Shipping Standard	Batteries shipped as Class 9 UN3480
15	Boxes	4G UN approved box
16	Packaging	Packed and shipped to UN3480



Physical specifications		
No	Items	Description
17	Housing	Peli case 1400 IP67 or Max 300 IP67 Custom Metal Housing IP54
18	Size (case)	306 x 234 x 130 mm
19	Weight	7KG

Accessories		
20	Connectors	Metal Military style sockets, or customer specified if required
21	Ultra Flexi Module	Parallel up batteries to share capacity SAFELY
22	Angel Module	To allow GSM comms with the battery from the Users OVER AIR
23	2 x USB Output (option)	5 volt output for Phone or Laptop USB
24	Solar Charging	200 or 400 watts using 'The Pheonix'

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Fact Sheet 100 Ah 12V Life PO4 Battery



Electrical		
No	Items	Description
1	Nominal Voltage	12.8 Volts
2	Nominal Capacity	100Ah
3	Watt Hours	1280Wh
4	Chemistry	Life PO4
5	Recommended Charge current Voltage	10 amps 14.6V
6	Max Discharge	35 amp or by request
7	Charge Temperature	0 to 45 degrees C
8	Discharge Temperature	-20 to 60 degrees C
9	Advanced Voltage Reader (See picture)	Shows voltage, current draw, time to discharge, time to charge

Safety Specification		
10	Fire Protection	Built in Fire Suppression Protection

Safety Certification		
11	Cells	UN38.3 tested and Certificated
12	Complete Battery	UN38.3 tested and CE & UKCA Certificated
13	Safety Certification Package Materials	Protective foam -Shock Absorbency UL94 ED6 and Flame Retarded

Shipping requirements		
14	Shipping Standard	Batteries shipped as Class 9 UN3480
15	Boxes	4G UN approved box
16	Packaging	Packed and shipped to UN3480

Physical specifications		
No	Items	Description
17	Housing	Peli case 1430 IP67 or Custom Metal Housing IP54
18	Size (case)	
19	Weight	17KG

Accessories		
20	Connectors	Metal Military style sockets, or customer specified if required
21	Ultra Flexi Module	Parallel up batteries to share capacity <i>SAFELY</i>
22	Angel Module	To allow GSM comms with the battery from the Users <i>OVER AIR</i>
23	2 x USB Output (option)	5 volt output for Phone or Laptop USB
24	Solar Charging	200 or 400 watts using 'The Phoenix'

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Fact Sheet 150 Ah 12V LiFePO4 Battery

Electrical		
No	Items	Description
1	Nominal Voltage	12.8 Volts
2	Nominal Capacity	150Ah
3	Watt Hours	1920Wh
4	Chemistry	LiFe PO4
5	Recommended Charge current Voltage	18 amps 14.6V
6	Max Discharge	20 amp or by request
7	Charge Temperature	0 to 45 degrees C
8	Discharge Temperature	-20 to 60 degrees C
9	Advanced Voltage Reader (See picture)	Shows voltage, current draw, time to discharge, time to charge

Safety Specification		
10	Fire Protection	Built in Fire Suppression Protection

Safety Certification		
11	Cells	UN38.3 tested and Certificated
12	Complete Battery	UN38.3 tested and CE & UKCA Certificated
13	Safety Certification Package Materials	Protective foam -Shock Absorbency UL94 ED6 and Flame Retarded

Shipping requirements		
14	Shipping Standard	Batteries shipped as Class 9 UN3480
15	Boxes	4G UN approved box
16	Packaging	Packed and shipped to UN3480



Physical specifications		
No	Items	Description
17	Housing	Carry case IP67 water rated
18	Size (case)	414 x 345 x 174mm approx.
19	Weight	18.1KG

Accessories		
20	Connectors	Metal Military style sockets, or customer specified if required
21	Ultra Flexi Module	Parallel up batteries to share capacity SAFELY
22	Angel Module	To allow GSM comms with the battery from the Users OVER AIR
23	2 x USB Output (option)	5 volt output for Phone or Laptop USB
24	Solar Charging	200 or 400 watts using 'The Pheonix'

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Enigma's Battery Accessories and Other Products

Fact Sheet - Battery Options and Accessories



For Both Lithium Ion and LiFePO4 Batteries

	The Ultra Flexi Module
	Our Ultra Flexi module now comes as standard in all our batteries.
	It allows you to Safely combine the capacity of your Enigma batteries, of any Ah capacity, within the same battery range/ voltage.
	This allows you to deploy them individually, or combine them for longer deployments. Making the batteries 'Ultra - Flexi'.

	The Angel Module
	The Angel module can be added to any of Enigma's batteries
	It is and inbuilt over the air control system that allows you to communicate with your battery via SMS
	The Angel offers the following features: <ul style="list-style-type: none"> • Low battery warning • Turn the unit on and off remotely • Capacity on demand • GPS Location • Geofencing alarm

	Multiple voltage power out sockets
	We offer options for 12v, 24v & 48v power out sockets on our battery pack range
	A 5v dual USB socket comes as standard on most of our batteries

	Waterproof Bag
	The waterproof bag allows you to deploy batteries and equipment in extreme conditions
	In bad weather where batteries can be submerged in ditches for long periods during flooding etc, IP67 rating is not adequate, and the Waterproof bag provides the extra protection needed.



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Professional Portable Battery Bank – 1600 Watts



Battery Power Generator with Mains, Car & Solar Panel Charging



Features		
No	Items	Description
1	Voltage	25.6 Volts
2	Nominal Capacity	60Ah
3	Watt Hours	1536Wh
4	Chemistry	LifePO4
5	Input AC	90-140V (60HZ) 180-250V (50HZ)
6	Inverter Waveform	Pure Sine Wave
7	Working Temperature	0 to 45 degrees C

Charging Sockets		
No	Items	Description
8	Via Mains	Super quick charging – lead supplied
9	Via Car Charger	Lead Supplied
10	Via Solar Pannel	Available to purchase separately – lead supplied as standard

Power Connection Sockets		
No	Items	Description
11	4 x AC Output Ports	AC20-240V 50Hz rated 1600W
12	4 x USB - A DC Output	Max 18W per port
13	2 x USB – C DC Output	PD100W
14	1 x Car Socket	13V/10A Max 130W
15	1 x DC Output	13V/3A Max 39W

Shipping requirements		
No	Items	Description
16	Shipping Standard	Batteries shipped as Class 9 UN3480
17	Boxes	4G UN approved box

Physical specifications		
No	Items	Description
18	Size	370 x 311 x 235mm
19	Weight	16KG

Accessories		
No	Items	Description
20	Included	1 x Mains Lead 1 x Car Charger Lead 1 x Solar Panel lead 1 x Instruction manual

Power		
No	Items	Description
21	Power to charge	70 mobile phones
22	Power to charge	20 laptops
23	Power to charge	A drone 140 times
24	Power to operate	2 x 280 watt heaters for 4.8 hours

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Fact Sheet

The Falcon

Waterproof case with a built-in battery for your Digital Devices



The Falcon is a waterproof IP67 Peli case housing with a large battery for back-up power to work with any digital recording device - such as the Flash Back 4.



Versions		
1	Standard Version	Is ready to work with Ovation's Flash Back 4.
2	Version 4	Is ready To work with Ovation's Ruggedised Flash Back 4.
3	Custom	To work with different digital recording systems. Subject to discussions on the technical interface.

Options		
4	Connectors	Metal Military style sockets, or customer specified if required.
5	Ultra Flexi Module	Parallel up batteries to share their capacity SAFELY . This allows you to add an additional battery for longer deployments without mains power.
6	Angel Module (Option)	To allow GSM comms with the battery from the users Smart Phone.
7	2 x USB Output (option)	5 volt output for Phone or Laptop USB.
8	Solar Charging (Option)	Solar panel and 'Pheonix, converter box available

Battery Information		
12	Battery Size	172 & 200Ah 12V Versions available
13	Complete Battery and cells	UN38.3 tested and Certificated
14	Battery chemistry	Lithium Ion - NMC

Shipping requirements		
9	Shipping Standard	Batteries shipped as Class 9 UN3480
10	Boxes	4G UN approved box
11	Packaging	Packed and shipped to UN3480

Physical specifications		
No	Items	Description
15	Housing	Peli case 1430 IP67
16	Size (case) mm	417 x 221 x 334
17	Weight	Approx. 14Kg 200Ah model

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Fact Sheet Page 2

The Falcon Flash Back 4 Dual



The Falcon is a 200 Ah battery that weighs approx. 14Kg, into which you can install a Flashback 4. This will allow you to run your own Flashback 4 off the internal battery. The FB4 cameras can be connected to the outside of the case.

The Angel communication antennas are connected to the outside of the case and within the case lid (optional). This allows you to track ring fence and control your system from a smart phone

Alternatively, you can exchange the FB4 for a modem and connect the IP cameras onto the outside the case. The unit can also provide the 48 volts required to operate the modem (optional).



The following are the plug and socket layouts on the side of the Falcon

1. Power Out / Flexi out
2. Flexi in
3. FB 4 camera socket - HD Video
4. FB 4 camera socket - SD Video 1 & 3
5. FB 4 camera socket - SD Video 2 & 4
6. FB 4 Aerial socket
7. Battery charging socket
8. Angel Aerial (if required/ optional)

USB socket

Space for the FB4 or Modem

Cables for the FB4 or Modem

The Angel communications module available

Advanced voltage reader

Power Switch for FB or Modem

On/off switch



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The Guardian



For the storage and maintenance of batteries



Features		
No	Items	Description
1	Voltage	Standard product to work with 12 volt Lithium Ion batteries, However options are available for other voltages and chemistries upon request.
2	Capacity	To work with any capacity of battery
3	Quantity	Stores and maintain up to 4 batteries per Guardian.
4	Display	Light indication of each batteries status – Charging, Discharging or balanced.
5	Special Features	Boost button – to bring your batteries up to full charge ready for deployment
6	Options	Separate Guardian Angel unit is available to add to your Guardian, allowing you to remotely boost your stored batteries.

Lithium Batteries have very high energy density. In order to maintain their performance, they need to be maintained when stored. This can be a time-consuming process if done manually. The Guardian allows you to store and maintain up to 4 batteries. Each battery is kept at its ideal voltage for storage maintaining the battery’s longevity. A boost button is provided to charge the batteries to full charge for deployment. If the batteries are not deployed the Guardian will bring them back down to their storage voltage.

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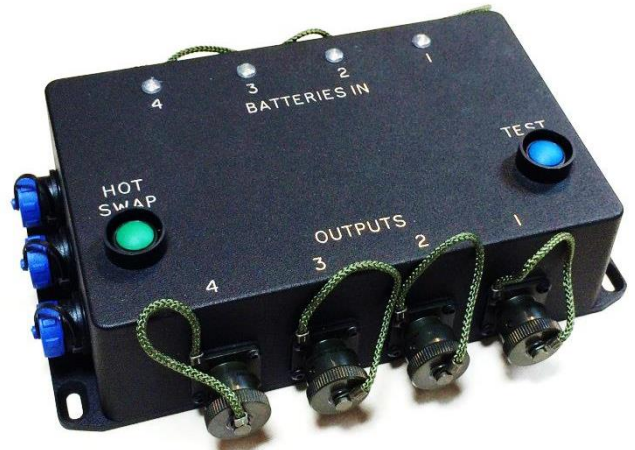
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Hydra and Angel Hydra

**Battery sharing solution
With option for over the air control**



Hydra and Angel Hydra General Specification	
The Hydra and Angel Hydra Combines the Ah capacity of up to 4 batteries to power up to 4 pieces of equipment simultaneously.	
Test button	The test button allows the operator to check the state of the battery packs attached. Red = No power left/ disconnected Green = waiting to be used
Hot Swap Button	Allows the operator to manually swap between batteries
Waterproof to IP66 when mated	

Angel Hydra	
Over the air control via SMS	
Removal SIM card	
Program your angel to individually label units for clear communication	
Automatic text alarm	the system will text you a low battery warning when batteries run out of power (adjustable)
Built in tracker	request the unit's location
Ring Fencing Alarm System	tests you if your unit is moved outside your 'ring fenced' area
Angel Hydra status request	Single text message will confirm the unit's status. Detailing what each input, output and battery are doing

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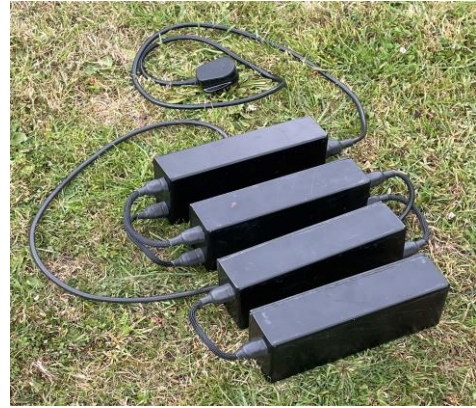
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The Snake Covert Battery



The Snake Battery is designed to work in an environment where space is restricted, the mains power is intermittent, and the location is difficult to service

Different situations require differing Ah capacity, physical size, and power output. However, we have a core design around which the specification can be altered.



Core Design Example

The Snake battery is made up of 4 boxes linked together as shown. Two of the boxes contain batteries giving a total capacity of 32Ah at 12 volts. Another box contains the supporting power supply unit. The 4th box contains the battery charger.

The size of each box is 190 x 85 x 45, these 4 units are installed into a restricted space linked together e.g. a lamppost. The units are then connected to the power in the lamppost and the power from the Snake is connected to your equipment.

When the power is on in the lamppost it charges the batteries within the Snake and powers your equipment; when the power is switched off in the lamppost the battery provides the energy for your equipment

Considerations

Please check the following:

That the boxes that make up the Snake will fit into your lamppost or restricted space.

Make sure the boxes can be connected to the power in the lamppost.

When does the lamp post energy come on and off?

Be satisfied that the period that the power is on, is long enough to recharge your batteries.

Be satisfied that the 32Ah of power in the Snake will power your equipment for the duration that the power is off in the lamppost.

Custom Specifications

We need to understand the following:

The current drain from the equipment being powered.

Any size restrictions at the installation's location. The installation location. This is to calculate the amount of time that the system is running on batteries, and the amount of time the mains power will be charging the batteries.

Typical Specification	
Item	Description
Size	4 boxes at 190mm x 85mm x 45 mm
Voltage	12 volts
Ampere	4 amps
Capacity	32 Ah
Weight	1.6Kg x 4 = 6.4 Kg Total weight
Operating Temp	Discharging -20° to +50° Charging 0° to 45°
Protection	Internal -BMS, Fuses, Fire Suppression
Connector	Options Amphenol Military

The Enigma Encoding Company Ltd

Tel : 01832 274963 **Email :**
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Enigma's Enigma's range of U.P.S.s Uninterrupted Power Supply Unit

Uninterrupted automatic power Supply from batteries and mains



Our range of UPS units allow the user to have uninterrupted power by switching to battery power when mains power is temporarily unavailable.
Various options available for different locations and options with internal batteries and for use with additional external batteries are available.
Each unit has an inbuilt power supply unit and charger.
When mains power is available your equipment will be powered and the battery charged
When power is lost the unit will seamlessly give power from the available battery
When mains power return it will seamlessly switch back

Options		
1	The Snake	The Snake allows a battery (size dependant) to be broken down into 4-5 separate boxes. This allows the broken batteries to be inserted and then re-assembled in a confined space. For example in lamp posts where power is also only available at certain times. When there is no power the battery powers the devices connected, and when power is available the power runs the equipment and charges the battery.
2	The Mole	For underground deployment having the same characterises as above and within a single weatherproof and IP 67 waterproof case.
3	Peli cased	Available with or without an internal battery and will work with existing batteries.
5	Solar Panel	For charging any of our UPS range (200 or 400 Watts options available)

Specification		
6	Internal PSU	Worldwide voltage range 85 ~ 264 Vac
7	Internal Charger	To suit the specification of the battery
8	Voltages	Various voltages available to suit your equipment
9	Chemistry	Options available for both LifePO4 and Lithium Ion batteries
10	Sockets	Military style Metal sockets IP67 rated when mated

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April 26

The Phoenix

Powering your equipment or charging your battery packs with free electricity from a PV (solar) panel.

Includes your choice of portable, folding photovoltaic panel with a small control box allowing you to charge your batteries via solar power



The phoenix is a dual-purpose unit:

- A Power your equipment via PV panel with **free electricity** and a battery backup
- B Recharge your battery packs with **free electricity** via the PV panel

Solar Folding Panel Options	100W (20V) as shown or 280 W (23v)
Rated Power	100W Details below
Open - circuit voltage	24V (Not less than: 22.8v)
Short – circuit Voltage	6A, (Not less than: 5.7A)
Solar Panel Type	Monocrystalline silicone
Waterproof grade	IP54
Charging Panel Weight	3.6Kg ± 0.2Kg
Connecter	XT60
Unfolded Size	536mm*1224mm
Folded Size	536mm*608mm



Outline Control Box	
No	Items
1	Waterproof to IP67 Dustproof
2	Input from Solar Panel
3	Output - Automatic battery voltage recognition for charging
4	Very fast process that processes data efficiently on a sunny/cloudy day. Maximise collection of Solar energy
5	Inverter Waveform
6	Case Size 258x243x117.5mm
7	Weight 3Kg

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April 26

Fact Sheet - Big Red

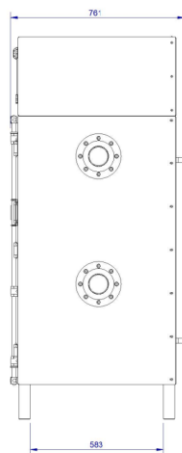
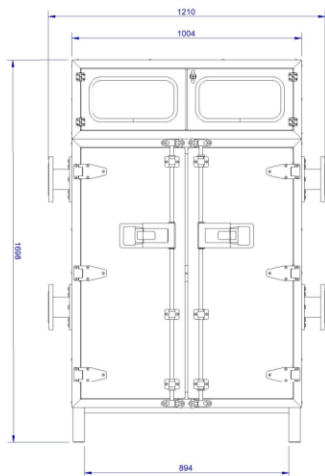


Battery Charging and Storage Cabinets

Please contact Enigma to discuss your requirements and for more information



Brief outline
Indoor and outdoor versions available
Charges/ tests up to 8 batteries simultaneously
Fireproof up to 600°C
Fully Ventilated
Automatic Fire Suppression System
Audio and Visual Alarms
Smoke and Heat Detection
Pressure sealed doors



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