



## MP7430 Lithium-Ion jump starter

### INSTRUCTION MANUAL

Please keep these instructions safe for future reference



Micro-processor controlled 12000mAh lithium-ion vehicle jump starter with 2A 5V USB, 10A 12V, 3.5A 19V and 12V jumpstart output.

Supplied with AC adaptor, 12V cigar accessory charger, selection of interchangeable barrel plugs, USB multi-plug cable, smart jump start cable, integral LED torch and carry case.

Suitable for use with all 12 V lead-acid batteries including deep cycle, AGM and Gel.



## 1 RISK OF FIRE OR EXPLOSION

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- Explosive gases may escape from the battery during the use of this product. This is normal, but please follow the following guidelines:
- Do not use near flames or sparks – do not smoke in the area.
- Ensure adequate ventilation during use.
- Never connect the smart jump cable output clamps together.
- Keep the area completely clear of combustible materials.
- This device contains a Lithium Ion battery, do not allow battery to overheat. Do not crush, pierce or incinerate.
- Store in a dry area and take care to not expose to rain or moisture during use.
- The jump starter is intended for use with 12V Lead-Acid, AGM & GEL batteries. Do not use with non-rechargeable batteries.

## 2 WARNING – GENERAL SAFETY

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- Never connect to a battery suspected to be frozen.
- This product should not be used for any purposes other than those listed – any other use will invalidate warranty.
- Ensure that cables are regularly inspected and kept in good condition.
- Do not store the device in locations that are likely to exceed 70°C, for prolonged storage **15°C** is ideal.
- Never use the product if the device or its accessories are found to be worn or damaged.
- This product contains no user-serviceable parts - never attempt to disassemble.
- During operation, locate the unit as far away from the vehicle primary battery as the cables will permit.
- Position the unit such that it cannot inadvertently become stepped on, tripped over or damaged.
- Never place the device directly above the battery unto which it is connected; gases from the battery will corrode and damage the product.
- Always follow battery manufacturer's instructions for charging - electrical discharge from batteries can be dangerous
- Battery electrolyte is acidic and likely to cause burns. The use of safety goggles and gloves when working with lead acid batteries is strongly advised.
- Remove metal items such as rings, necklaces and watches while working with batteries.
- This appliance is not for use by a person (including children) with reduced physical, sensory or medical capabilities or lack of experience or knowledge.

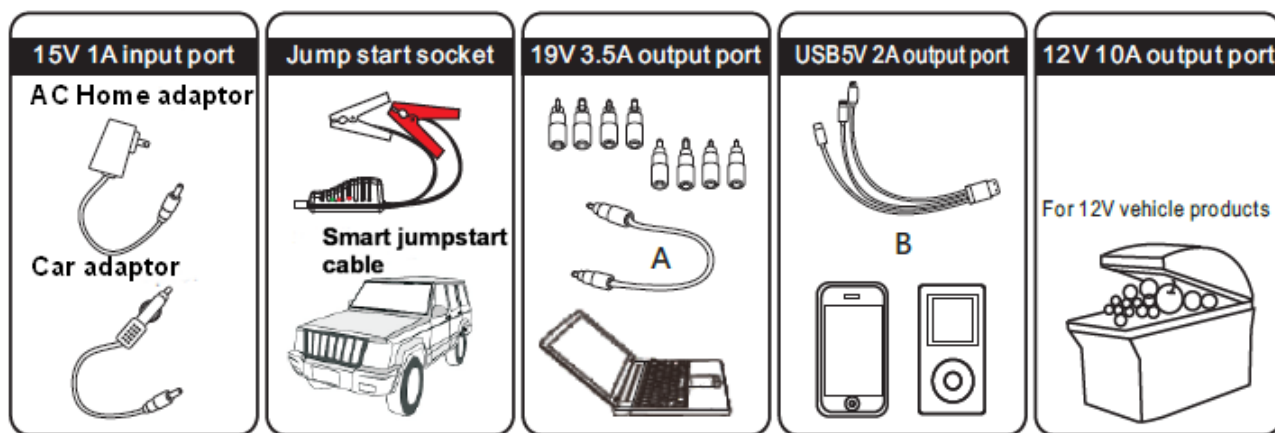
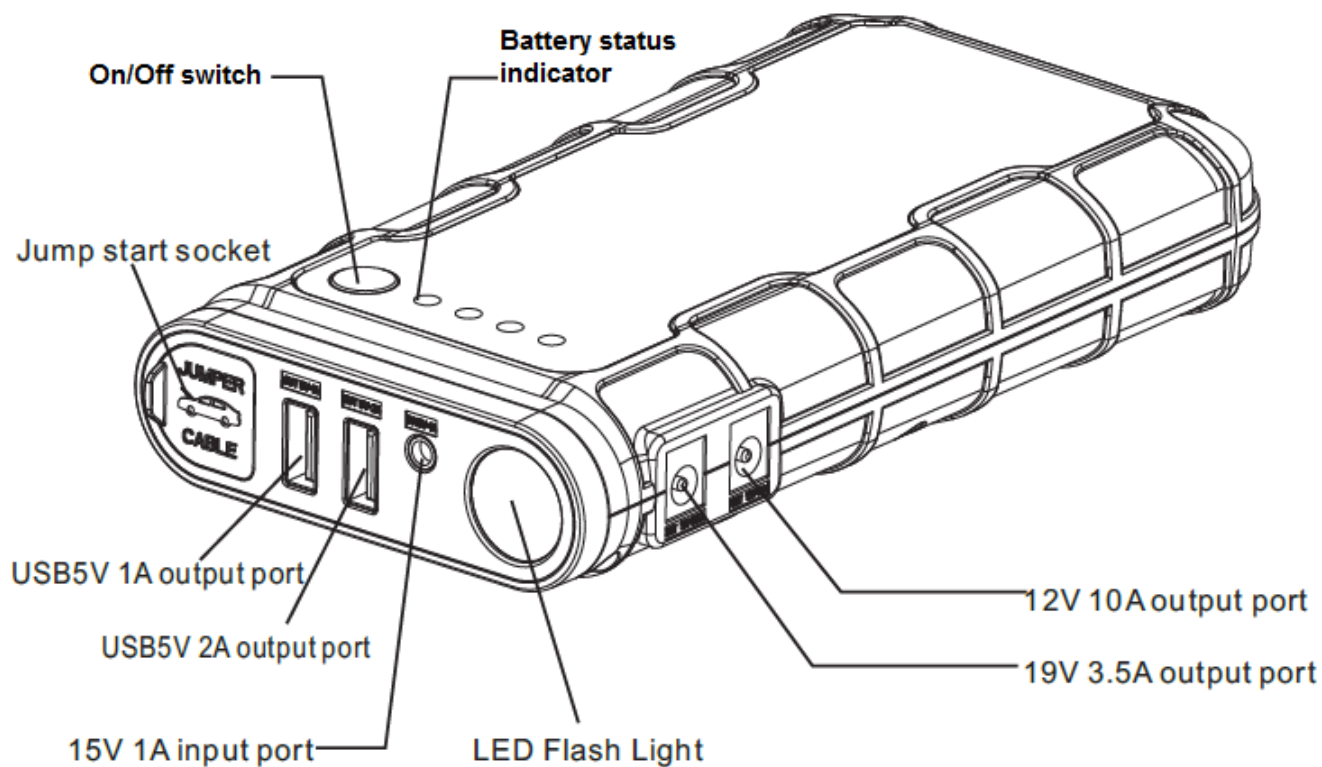
## 3 PREPARATION OF THE BATTERY

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Refer to the vehicle manufacturer's handbook for battery maintenance, connection and charging guidelines.

## 4

## PRODUCT LAYOUT



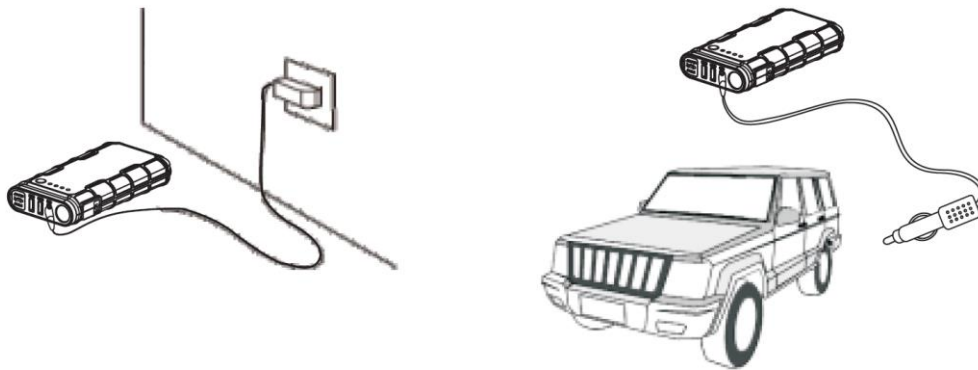
## 5

## CHARGING THE DEVICE

Depressing the ON/OFF switch on the top of the unit will result in the blue LEDs adjacent illuminating. The number of LEDs which align signifies the current level of charge within the device:

Indicator	1 Flashing	1 solid	2 solid	3 solid	4 solid
Storage level	0%	25%	50%	75%	100%

During the charge cycle, the blue LED that corresponds to the current level of charge will flash, i.e. one solid blue LED and one flashing blue LED represents 25% completed charge. When charging is complete, all LEDs will switch off.



The device can be charged in two ways:

- Using the cigar accessory car adaptor – First connect the accessory cable provided to the vehicle accessory socket, then connect to the 15V 1A input indicated within the diagram on page 4.
- Using the AC home adaptor – Plug the AC adaptor into a mains socket then connect to the 15V 1A input port indicated within the diagram on page 4.

## 6 JUMP STARTING VEHICLES

ALWAYS CONSULT YOUR VEHICLE MANUFACTURERS HANDBOOK TO CONFIRM CORRECT JUMP-STARTING ROUTINE!

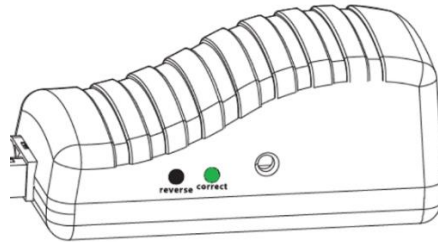
Note: The battery within the device must be at a minimum of 75% for the jump start function to operate. Ensure all non-essential loads (fan, lights, radio etc.) are switched off prior to commencing the jump starting procedure.



- Connect the smart jump start cable to the device.
- Connect the red (+ve) clamp to the designated +12VDC connection point or positive post of the battery, then connect the black (-ve) clamp to the vehicle chassis or negative battery post.

Upon initial connection, the device will analyze the condition and voltage of the vehicle battery unto which it is connected to determine if a jump start would be successful. The ability of the device to successfully start a vehicle is heavily dependent upon the condition of the primary vehicle battery; if the vehicle battery is very old, has been discharged for an extended period of time or otherwise damaged jump starting may not be successful.

Once battery condition and voltage checks are satisfied, the green 'correct' LED will illuminate on the side of the smart cable, as shown below. The vehicle is now ready to be jump started; crank the engine within 30 seconds of connection.



Upon successful starting the red and green LEDs will flash; the jump cable can now be disconnected. Remove the black (-ve) clamp first, followed by the red (+ve) clamp. Leave the vehicle engine running for a period after disconnection to allow battery to be recharged.

## 7

### SMART JUMP START CABLE STATUS LEDS AND FAULT CONDITIONS

**Blinking green LED:** The vehicle battery voltage is below the minimum required threshold of 6VDC in order for the device to successfully start the vehicle.

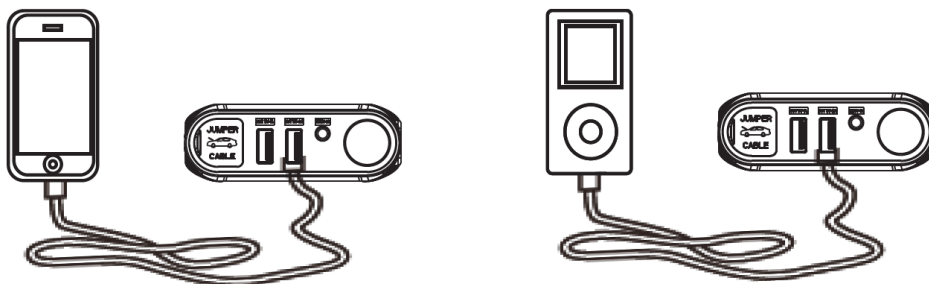
**Warning tone emitted with steady red LED:** Correct connection polarity has not been observed. Remove clamps and reconnect ensuring the red (+ve) clamp is connected to the designated +12VDC connection point or positive post of the battery and the black (-ve) clamp is connected to the vehicle chassis or negative battery post.

**No LED illuminated, no warning tone:** The device cannot detect a connection to a vehicle. Remove and replace both clips, rotating them slightly once clamped so as to remove any dirt or oxidization and thus ensuring a good contact.

## 8

### CHARGING DEVICES VIA USB

A wide selection of portable devices like mobile telephones, tablets and portable media devices can be charged via this device.



Connect the device you wish to be charged to the USB output port using an appropriate cable and momentarily depress the ON/OFF switch on the top of the unit. The blue battery status indicator LEDs on the face of the product will illuminate and charging will commence automatically.

## 9 FLASHLIGHT

This product features a multi-mode LED flashlight which is activated by pressing and holding the ON/OFF switch on the top of the unit for three seconds. The operating mode of the flashlight can be changed by briefly pressing the same button; on, strobe, S.O.S. and off.

## 10 TECHNICAL SPECIFICATIONS

Product dimensions (mm)	171 x 87 x 31
Weight (g)	450
Battery capacity (mAh)	12000
Output	5V=1A; 5V=2A; 12V=10A; 19V=3.5A; 12V jump start
Input	15V=1A
Time required for full charge	Approximately 3-4 hours
Starting current	200A
Peak current	400A
Operating temperature	-20°C ~ 60°C

## 12 FREQUENTLY ASKED QUESTIONS

- Q. How do I turn off the product?  
 A. The device will automatically switch off once charging is complete or no USB devices are connected.
- Q. How long does it take to fully charge the battery within the unit?  
 A. Approximately three hours if charged via a 15V 1A supply.
- Q. How many times can the product fully charge a mobile phone before the internal battery requires recharge?  
 A. This is heavily dependent on the specific mobile phone being charged; as an example, an iPhone 6 can be fully charged six times.
- Q. How many times can the product jump start a vehicle before the internal battery requires recharge?  
 A. This is heavily dependent upon the condition of the vehicle battery and its state of charge prior to jump starting; on average the device could successfully jump start a vehicle twenty times before a recharge is required.
- Q. What is the anticipated life-span of the product?  
 A. Approximately 3-5 years under normal conditions and use.
- Q. Once fully charged, how long with the internal battery retain its charge before a recharge is necessary?  
 A. It is recommended the product is charged once every three months if not used.
- Q. What vehicle types can I jump start using this device?  
 A. The unit can be used on most petrol engine vehicles with an engine size up to six liters and diesel engine vehicles with an engine size up to three liters.
- Q. How should this unit be disposed of at the end of its useful life?  
 A. The unit contains hazardous constituents that should be disposed of at local authority registered waste recycling center or a battery collection point.

## 11 DECLARATION

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We declare that this product conforms to standards EN50498:2010, EN55015:2013, EN61547:2009, EN55022:2010, EN55024:2010, EN61000-3-2:2006/A2:2009, EN61000-3-3:2013 and 2002/95/EC.



Technical Manager  
Maypole Ltd January 2018



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