



**MIGHTY POWERFUL... MIGHTY
RELIABLE... MIGHTY SMART...
MIGHTY SEVEN!**

M7 Presents the new **SMART STARTERS**

To Power Up Your Jump Starts!

**Two Year
Warranty**



FA-1225



FA-1250



FA-2450



FA-1218



FA-1214

**SWISS
ENGINEERING...
AMERICAN ASSEMBLY**



Available Features:

Industrial clamps - LED light - Trolley unit
Reverse polarity buzzer - Safety fuse
Smart Charger - USB charger



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CONGRATULATIONS,

You have purchased a carefully engineered, quality product built in the United-States!

Your Jump Starter is designed to give you the best quality and convenience you expect from a professional Jump Starter. We have taken numerous measures in quality control and in our manufacturing processes to ensure that our product arrives in top condition, and that it will perform to your satisfaction.

IMPORTANT NOTES:

READ THE ENTIRE MANUAL BEFORE USING THIS PRODUCT.

IF SOMETHING IS NOT CLEAR CONTACT YOUR RETAILER.

CHARGE JUMP STARTER 12 HOURS PRIOR TO FIRST USE.

LEAVE CONNECTED TO THE SUPPLIED AUTOMATIC CHARGER WHEN NOT IN USE.

1. IMPORTANT SAFETY INSTRUCTIONS

1. **Wear safety goggles, gloves and appropriate clothing during each use. Use in a well-ventilated area.**
2. Use of an attachment not recommended or sold by the Jump Starter's manufacturer, may result in a risk of damage to the unit/engine, or injuries to people.
3. When using the charger or charging cable, pull on the plug and never on the wire when disconnecting.
4. Do not recharge the Jump Starter with a damaged plug or cord. Replace the broken part immediately (see point 2).
5. The Jump Starter can be used under any weather condition (rain, snow, hot or cold weather), but has to be stored in a climate controlled place. **Cannot be submerged in water.**
6. Never bring the red (+) and the black (-) clamp into contact or allow them to contact the same piece of metal to avoid any short-circuit, and to avoid injury or damages.
7. Do not operate in an explosive environment and / or with flammables, such as gasoline, gas etc.
8. Do not try to repair the Jump Starter yourself when defective, but have it always repaired by the manufacturer or your distributor (otherwise warranty will not be given).
9. Do not try to jump start your car if the battery is being charged. Disconnect chargers before.
10. Never connect a 12V DC jump starter to a 24V DC vehicle, or the opposite. It may explode and cause damages and harm you or people around you.
11. **Lead-acid batteries create explosive gases during operations**, it is why you should read carefully this notice. Do not smoke, use lighters or matches around batteries.
12. If battery is leaking, do not use the booster and return it to your retailer for repair. Never attempt to repair it yourself, it may cause injury and void the warranty.
13. Never leave the Jump Starter too long without recharging it. Severe damages caused by this are probably not repairable.

IMPORTANT: When the Jump Starter is not in use, always keep it connected to the supplied AUTOMATIC Charger. The charger will stop automatically when it detects a full battery.

2. TECHNICAL SPECIFICATIONS

1. Type of battery: sealed, non spillable, lead acid battery with solid electrolyte (AGM) according the I.A.T.A standards.
2. Automatic charger with smart circuit which allows leaving the unit in charge continuously without damage.
3. 12V exit (cigar lighter socket), protected with an automatic reset breaker of 20A, to be connected to all sorts of 12V accessories or to charge the Jump Starter. (**Caution: 24V sockets only for the 24V models**)
4. Fully isolated clamps and pure copper cables (super flexible).
5. Test button and LEDs, digital or analogue display, to check the charge of the battery from 25% to 100%. For a complete test, press test button for 5 seconds.
6. Surge protection.

3. SAFETY FEATURES

1. To avoid any short-circuit and to protect the clamps, which have a positive (=red) and negative (=black) current, clamps must always be stored in the specially designed holders when not in use.
2. The cable holders on the Jump Starter housing are to store the cables.
3. Thanks to its 12V sealed, non-spillable lead acid battery, the Jump Starter may be used and stored in any position and is state of the art technology.
4. If you have a 12/24V unit, make always sure that the voltage selector switch is on “OFF” or that the voltage connector plug is unplugged (depending on model) during transport or when not in use. It is normal that gage and LED will not function in OFF position. **For charging: put the voltage selector switch in 12V position, or plug the voltage connector plug in the 12V socket.**
5. Always attach the clamps correct to the terminals of the vehicle battery. Do not crank starter, without an installed proper vehicle battery. Otherwise possible damage can occur to the electrical system of the vehicle or to the Jump Starter!
6. Some models are equipped with a buzzer and a warning light: For these models, the following steps **MUST** be followed:
 - a- 12V or 24V Model: ON/OFF selector **MUST** be on “OFF” (clamps are Voltage free)
 - b- 12/24V Model: Voltage selector Switch **MUST** be on “OFF” or the voltage connector plug **MUST** be unplugged (depending on the model), (clamps are Voltage free)
 - c- Connect the clamps to the battery poles, when you hear the Buzzer or notice that a red warning light is burning, **Disconnect the clamps immediately and reconnect the clamps on the correct battery poles!**
 - d- **Warning:** Whenever the clamps on the Jump Starter are **NOT Voltage free** and are inversed connected to the vehicle’s battery, the fuse will blow and buzzer can be damaged.

4. CHARGE LEVEL

Version with control lights (LEDs) 12V, 12/24 and 24V:

1. Check power level of the Jump Starter by pressing the test button for 5 seconds, if you have a 12/24V unit first plug the voltage connector plug in the suitable socket, or switch to the correct voltage if your models has a voltage selector, (if it is unplugged or on the position OFF the LEDs will not light up). When 4 LEDs come on (2 red, 1 orange and 1 green) your Jump Starter is ready for use. When 3 LEDs or less come on, the Jump Starter needs to be recharged immediately according to the directions mentioned in the section 5.
2. Press test button for 5 seconds. If all 5 LEDs stay on, your Jump Starter is fully charged.
3. **The fifth LED indicates that the battery is being charged and is also an alternator output test.** It will turn OFF automatically when charger is disconnected.

Version with digital or analogic display 12V, 12/24V and 24V:

1. Check power level of the Jump Starter by pressing the test button for 5 seconds, if you have a 12/24V unit choose the suitable voltage with the voltage selector switch. If the voltage is lower than 12,4V (or 24.8V), the Jump Starter needs to be recharged immediately according to the directions mentioned in the section 5.
2. Check power level of the Jump Starter by pressing the test button for 5 seconds. If the voltage is between 12.4 and 13.3V (or Hi) or between 24.8 and 26.6V (or Hi), the Jump Starter is ready for use.

5. WAYS TO RECHARGE THE JUMP STARTER

1. With the supplied automatic charger, plugged in an 110V outlet (other voltages also available depending on your model, please check with your distributor). If you use a 12/24V unit, put the voltage selector switch in 12V position or plug the voltage connector in the 12V socket (depending on model) for charging. Caution, do not choose the 24V position while charging. Check that the charger 12V-4A or 24V-2A is on by pressing the on/off button on the right.
2. While driving by using the supplied charging cable connected to the cigar lighter socket of the vehicle. (The vehicle should be started before plugging the cable in the cigar lighter socket). Charging will take 4 to 5 hours.

CAUTION: once the vehicle is started, disconnect clamps **IMMEDIATELY** from battery, starting with the **Negative (black) clamp**.

Danger of explosion if not immediately removed.

Charging times depending on model and charger:

Models with 1 battery and automatic charger LESA5, 0.6A	28H maxi.
Models with 1 battery and automatic charger LESA4, 1.2A	16H maxi.
Models with 1 battery and automatic charger LESA6, 1.5A	12H maxi.
Models with 2 batteries and automatic charger LESA6, 1.5A	22H maxi.
Models with 2 batteries and automatic charger LESA8, 4A	18H maxi.
Models with 2 batteries and automatic charger LESA9 24V, 2A	18H maxi.

When the red light of the charger is extinguished or becomes green (LESA5, LESA4, LESA6), or when all LED's are flashing (LESA8 or LESA9) the battery is fully charged.

These data are non contractual and can be subjected to changes, for more information please take contact with your retailer.

When the Jump Starter is not in use, always keep it connected to the supplied automatic charger!

6. OPERATING INSTRUCTIONS

USED AS AN EMERGENCY JUMP STARTER:

1. Always wear safety equipment before using this product. Safety glasses and gloves are imperative.
2. Make sure the area is well ventilated and that the terminals clean.
3. Read and understand the vehicle and battery manufacturer's precautions before jump starting.
4. If you have a 12/24V unit, make sure that the voltage selector switch is on "OFF" or that the voltage connector plug is unplugged (depending on model). If you have a 12V or 24V unit with ON\OFF switch, make sure it is turned OFF.
5. Connect the positive (red) clamp to the positive terminal (make sure the positive terminal is not grounded to the chassis).
6. Connect the negative (black) clamp to the negative terminal of the engine - to the frame of the vehicle (ground). Make sure cables are not in the path of moving belts or fans, etc.
7. If you have a 12/24V unit, choose the voltage with the voltage selector switch or with the voltage connector plug 12V or 24V. If you have a 12V or 24V unit with ON\OFF switch, turn it ON. Stay clear of battery and Jump Starter while jump-starting and make sure that it cannot fall in the engine of the vehicle.
8. Once started, **first disconnect the black (negative) clamp**, then put the voltage selector switch on OFF or unplug the voltage connector plug from the (12/24V unit). Or turn the switch on the OFF position.
9. Then disconnect the red (positive) clamp.
10. Store immediately both clamps in their respective placing.
11. Put the Jump Starter in charge with the supplied automatic charger.

IMPORTANT: Should the vehicle refuse to start within 5 seconds, have the Jump Starter cool down for at least 5 minutes before attempting to start the vehicle again. Otherwise severe damages to the unit or to yourself may occur. (Start attempts always need to be very short).

NOTE: A defective battery may refuse to accept the current from the Jump Starter. This may be the reason why the vehicle refuses to start. In this case please consult a professional technician and do not attempt to jump start your car again.

USED AS MEMORY SAVER FOR VEHICLES:

The Jump Starter can be an essential tool for all those who replace automobile batteries. Most vehicles have some type of electronic component with memory, such as radios, phones, clocks, computers, etc. Memories can be saved, if the supplied charging cable is plugged from the Jump Starter to the cigar lighter outlet on the vehicle. Like this, valuable information will not get lost.

IMPORTANT: For some car models ignition must be switched on, using ignition key.

MULTI PURPOSE POWER SUPPLY:

The Jump Starter is also suitable as a portable power source for all 12V DC accessories equipped with a male cigar lighter plug. The 12V outlet has an automatic overload protection of 20A (**Caution: 24V exit for the 24V model**). Read carefully accessories' manuals beforehand.

Welding Option: Some models come with an emergency welding feature. Please wear appropriate protections beforehand. Make sure the unit is fully charged, select the 24V option on the booster and connect the black negative clamp to the negative frame of the car. Now you can start welding. Once finished, remove the clamp and replace it on the jump starter.

WARRANTY

The warranty on the Jump Starter depends on the conditions granted by your retailer. The manufacturer shall have no liability whatsoever at any time for any personal injury or property damage or for any special, indirect or consequential damages at any time for any kind howsoever arising. You must have the original receipt in order to claim warranty. If battery has been discharged for too long, or if you another fuse than the 500A supplied, it will void the warranty. Safety wise, the 1000A fuses take longer to blow than the original 500A fuses. This is why they are not supported by the warranty. Please check with your distributor for more information.

THE TERMS OF ENERGYFLO INCORPORATED WARRANTY CONSTITUTE THE BUYER'S SOLE AND EXCLUSIVE REMEDY. WARRANTY LIMITED IN DURATION, AFTER 1 YEAR FROM DATE OF PURCHASE, ALL RISKS WILL BE PUT UPON THE BUYER. ENERGYFLO SHALL NOT BE LIABLE FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES UNDER ANY CIRCUMSTANCES. ENERGYFLO'S LIABILITY, IF ANY, SHALL NEVER EXCEED THE PURCHASE PRICE OF THIS MACHINE REGARDLESS OF WHETHER LIABILITY IS PREDICATED UPON BREACH OF WARRANTY (EXPRESS OR IMPLIED), NEGLIGENCE, STRICT TORT OR ANY OTHER THEORY.

King Tony America Warranty Policy

King Tony America (KTA), Mighty-Seven (m7) Smart Starters:

m7 Smart Starters (Jump Starters) are under a 24 month limited warranty program for the case.

The battery is under a 12 month limited warranty program.

These limited warranty programs do not apply to products that have been misused, abused, modified, disassembled or repaired by someone other than an m7 Authorized Service Center (ASC).

KTA reserves the right to conduct an inspection of any tool returned for warranty consideration and will offer the owner of the tool a written evaluation if warranty is denied for any reason. Specific exclusions to this warranty include certain consumable (wear) items in every tool. All consumable items are clearly noted in the parts list for each tool contained in the catalog. Other specific exclusions include failure to properly oil the tool prior to use and using excessive air pressure to operate the tool. All implied warranties, including but not limited to the implied warranties of merchantability or fitness for a particular purpose are also specifically excluded.

In no event shall KTA be liable for consequential, incidental or specific damages resulting from or in any manner related to the product, its design, use or any inability to use the same. The sole and exclusive remedy with respect to a defective product shall be the repair, or replacement of the tool.

An RMA number is required for ALL returns to KTA. A copy of the proof of purchase must accompany ALL returns to KTA **and** m7 ASC. For any warranty repairs (excluding calibration), assistance with a warranty claim, or an m7 ASC nearest you, visit our website: www.kingtonyamerica.com, email: warranty@kingtonyamerica.com or call King Tony America at 1-877-708-6657 between the hours of 8AM and 5PM, Pacific Time.

TROUBLE SHOOTING:

<u>PROBLEM</u>	<u>SOLUTION</u>
One or two LEDs come on, charger is plugged on for 24 hours and there is no change in status of other LEDs.	Check if charger is charging. Charger should be warm. Also check if the fuse inside the cigar lighter plug of the charger is not defective.
Charger works well but the Jump Starter is not being charged.	Possible defective battery or faulty internal breaker. Try using a device (for example a 12V light) with a cigar lighter plug to see if it works. Should it work, internal breaker is OK and the battery is the problem.
No LED's come on, but when the charger is plugged into the Jump Starter all the LED's come on.	Defective battery.
The Jump Starter is fully charged but has no power.	Check if the cables are well connected to the clamps and make sure the jaws of the clamps are properly connected to the battery terminals. Vehicle battery may be damaged
When connecting a 12V accessory through the cigar lighter outlet on the Jump Starter, I heard a clicking sound.	The plug on the accessory may be defective causing the automatic fuse to go off.
The Jump Starter is equipped with 1 or 2 big fuses and is fully charged, but has no power.	Check if the 500A fuse on the negative side of the Jump Starter is OK. If not, please replace it with the spare fuse. On some models, the spare fuse is installed on the positive side of the Jump Starter. This fuse has no function other than to serve as a spare part.
When you hear the buzzer or notice that the red warning light is flashing.	Disconnect the clamps immediately and reconnect the clamps on the correct battery poles!!!!

FREQUENTLY ASKED QUESTIONS:

<u>QUESTION</u>	<u>ANSWER</u>
How many jump-starts can a fully charged Jump Starter do before needing to be recharged?	1 to 30, depending on: temperature, general condition of vehicle, engine type and size.
Can the Jump Starter's battery be replaced?	Yes, contact your nearest distributor.
Can the Jump Starter be recycled?	Yes. The environment was one of our main concern in the development of the Jump Starter. Most battery outlets should recycle this product at its life's end.
What is the ideal storage temperature of the Jump Starter?	Room temperature. The Jump Starter will also operate at cold temperatures; however its power will be reduced. Higher temperatures will increase self-discharge time.
I have a regular 10 amps battery charger, can I use it to recharge the Jump Starter.	No, only the originally supplied fully automatic charger can be used.
Is the Jump Starter a general public product?	No, our models are designed for professionals. User manual must still be followed carefully.



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



Never dispose of electrical equipment or batteries in with your domestic waste. If your supplier offers a disposal facility, please use it or alternatively use your local amenity tip and dispose in a correct manner. This will allow recycling of raw materials and help protect the environment.

Notes:

M7's New **SMART STARTERS** Are Here!

Starting cables (double insulation) with an optimal length and extremely flexible

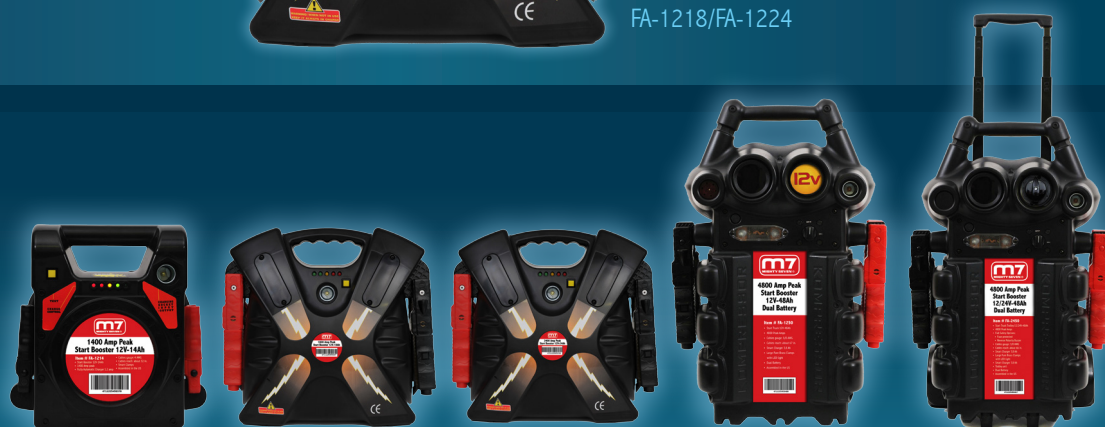
The clamps are completely insulated and fitted with a copper bridge which ensures the diffusion of current on both bronze jaws.



LED indicators display batteries condition and tests an alternators output.

The clamp is equipped with a LED for an easier and safer use, especially in the dark (except FA-1214)

FA-1218/FA-1224



Part Number	FA-1214	FA-1218	FA-1225	FA-1250	FA-2450
Dimensions	11X10X7	15X14X7	15X14X7	19X14X10	20X14X11
Voltage	12VDC	12VDC	12VDC	12VDC	12/24VDC
AMP Hours	14	18	24	48	48
Peak Amps	1400	1800	2400	4800	4800/2400
Cable Reach	32 Inch	43 Inch	43 Inch	67 Inch	66 Inch
LED Light	N/A	Yes	Yes	Yes	Yes
Number of Batteries	1	1	1	2	2
Type of Battery	AGM	AGM	AGM	AGM	AGM
Weight	17LBS	24LBS	25LBS	49LBS	54LBS
Cable Gauge	4	4	4	1/0	1/0
Cable Type	Smart	Brass	Brass	Brass	Brass
Charger	1.2AMP	1.2AMP	1.2AMP	3.8AMP	3.8AMP
Assembled in USA	Yes	Yes	Yes	Yes	Yes