

INTELLI-START 12V LITHIUM JUMP STARTER



Pour le manuel en français, visitez
PROJECTA.US ou appelez le **1-888-489-9820**.

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www.P65Warnings.ca.gov

IMPORTANT SAFETY INFORMATION

Please read this manual thoroughly before use and store in a safe place for future reference.

WARNINGS

- This unit has been designed for 12V vehicles only.
- Risk of explosive gas. Working in the vicinity of car batteries can be dangerous. Batteries release explosive gases during normal operation, charging and while jumpstarting a battery. Before using this jumpstarter, read and follow the instructions carefully. Follow all manufacturer's instructions and warnings of the vehicle's battery and other equipment being used.
- Jumpstart lead acid and LiFePO4 batteries. Do not use to jumpstart dry cell batteries commonly found in household appliances. These batteries may burst and cause injury and/or property damage.
- Do not smoke, use matches, use a cigarette lighter, or allow a spark or flame near the battery.
- Do not allow metal to come in contact with the battery posts. It may spark or short-circuit the battery and cause an explosion.
- Remove rings, bracelets, necklaces and watches when working with a lead acid battery.
- The Jumpstarter contains a sealed non-spillable Lithium Iron Phosphate battery. It must be disposed of properly.
- Ensure correct polarity when connecting to vehicle.
- Do not submerge jumpstarter in water, keep out of the rain.
- PJ-IS1500-2 is not rain proof and is not designed to be left outside for extended periods of time or submerged in water.
- Do not store the jumpstarter in temperatures above 113°F (45°C) or below 14°F (-10°C) as this can affect the health of the battery.

IMPORTANT CHARGING INFORMATION

- Charge the PJ-IS1500-2 jumpstarter prior to use, this may take up to 24 hours.
- Recharge the jumpstarter after every use and follow charging instructions.
- When the jumpstarter is not in use ensure it is always on charge.
- Do not allow the jumpstarter to become very flat. If the 'Low' BATTERY STATUS LED is illuminated on the front of the unit, ensure the jumpstarter is charged immediately.

FEATURES

RAPID RECHARGE TECHNOLOGY (RRT)

The Lithium Iron Phosphate (LiFePO₄) battery is able to rapidly recover charge from the vehicles alternator. Leaving the clamps connected to the vehicle battery for 40 seconds will recharge the jumpstarter to 100%* of the original charge status. If left connected, will recharge for up to 10 minutes. Once the jump starter is fully charged, the RRT will shut off avoiding overcharging.

JUMPSTARTING PERFORMANCE

This jumpstarter is designed to start vehicles that require a clamp output of up to 700 Amps to start their engine. With 40 seconds of RRT the jumpstarter will not need to be recharged during the working day. However it is recommended that the PJ-IS1500-2 be charged on the dock when not in use to increase the battery life by 10–20%.

ENGINE BAY SAFE OPERATION

The PJ-IS1500-2 jumpstarter is light and compact compared to conventional Lead Acid jumpstarters. With best in class over-mould material which provides secure grip and impact protection allowing users to operate the unit on the engine or starter battery.

HIGH PERFORMANCE BATTERY

High quality 4-cell 6Ah Lithium Iron Phosphate battery delivers instant starting power to gas and diesel vehicles. The battery offers longer life, better power density and is inherently safer (compared to lead acid batteries and other Lithium Batteries. It is certified to meet International Standard UN DOT 38.3.

ULTRA LOW BATTERY LEAKAGE CURRENT

A special circuit is added to prevent internal battery from leaking current. The user doesn't need to worry about battery depletion over time. Simply put it has longer shelf life between recharging.

DOCKING STATION FOR 120V

A slim and stable docking station is provided to allow the unit to be charged from a 120V AC outlet.

AUTOMATIC CELL BALANCED CHARGE CONTROL

Automatically stops charging when the battery is fully charged and initiates maintenance mode, keeping the battery fully charged ready for use. You can leave the unit on charge indefinitely without the risk of overcharging. Using the docking station increases the life by 10–20%.

*Under normal conditions with a fully functioning alternator.

REVERSE POLARITY PROTECTION & ALARM

Prevents sparking from accidental reverse connection. Alarm sounds when jumpstarter clamps are connected incorrectly. If the alarm sounds check for reverse connection.

OVER-TEMPERATURE PROTECTION

Should the unit overheat by continuous or numerous jumpstarts, the unit will shut off automatically and restart once the over-temperature condition subsides.

UNDER-VOLTAGE AND OVER-VOLTAGE PROTECTION

The jumpstarter will deactivate and sound an alarm if connected to a vehicle battery which is higher than 14.6V, or if the internal battery is discharged to a level whereby the battery might be damaged.

BATTERY AND JUMPSTART STATUS INDICATION

Monitor the jumpstarter's charge level and display jumpstart status from the easy to read LED indicators and BATTERY STATUS button.

SURGE PROTECTION

Allows safe jumpstarting of vehicles with EFI (electronic fuel injection) and computer management systems.

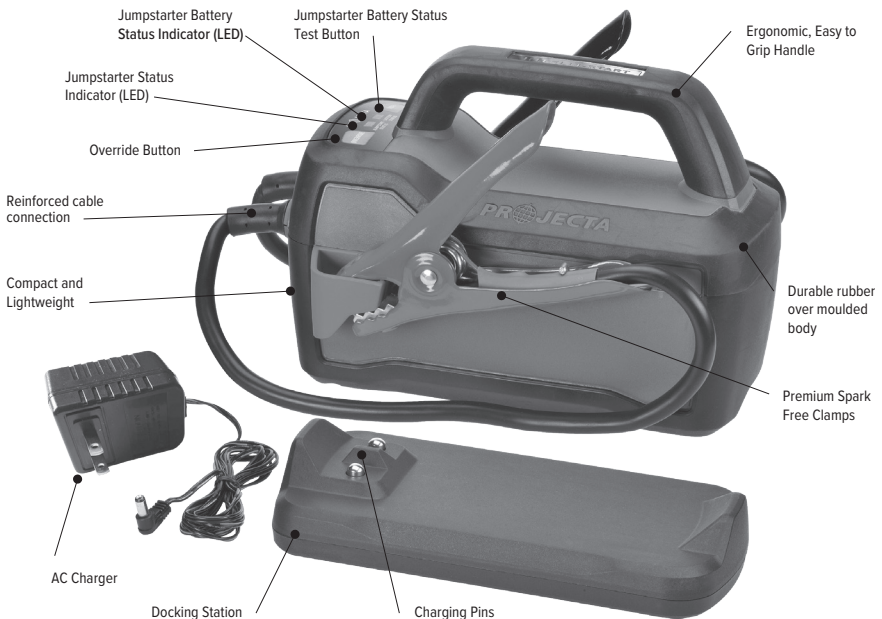
SPECIFICATIONS

P/No.	PJ-PJ-IS1500-2-2
Battery	
Battery Capacity	24000mAh / 76.8wh
Battery Chemistry	Lithium Iron Phosphate (LiFeP04)
Peak Amps	1500A
Clamp Power	700A
Battery Cycles (battery lifespan)	2000
Jump starter Leads	
Length	21.5"
Cable	AWG 4
Polarity Protection	Automatic solenoid control
Recharging	
Via	Charger Docking Station
Source	12V/1A AC Adaptor
Main Charge	Internally cell-balanced Constant Current/Constant Voltage
Maintenance Charge	Constant Voltage at 14.6V
Jump start Connection Voltages	
Auto Connect	3.0V– 15.0V
Override	<3.0V
Jumpstarter	
Weight	8.75lbs.
Dimensions	
Height	7.72"
Length	9.25"
Width	7"
Lead Length	21.65"
Operating Temperature	14°F(-10°C) to 140°F (60°C) (Discharge)
Operating Temperature (charging)	32°F (0°C) to 113°F (45°C)
Storage Temperature (long term)	14°F (-10°C) to 113°F (45°C)

LED INDICATION

Battery Status LED	Jumpstart Status LED	Audio Alarm	Description
On Charging			
Yellow (Flashing)			The jumpstarter is being charged
Green (Solid)			The jumpstarter is fully charged
Rapid Recharge from Alternator			
Red/Green (Flashing)			The jumpstarter is being charged
Green (Flashing)			The jumpstarter is fully charged
Not On Charge – Press “Test” Button to Check internal Battery Status			
Green (Solid)			Battery is full and ready for use
Yellow (Solid)			Not fully charged but still good to use
Red (Solid)			Internal battery voltage is low and needs to be charged. It might not have sufficient capacity to jumpstart the vehicle.
Red (Flashing)			Internal battery voltage is too low and needs to be charged immediately.
Jumpstarter connected to the car battery (>3V) or Press Override Button			
	Green (Solid)		
Jumpstarter connected to the car battery (>3V) or Press Override Button			
	Red (Solid)	On	Reverse Connection or Input over-voltage is detected
	Red (Flashing)	On	Short-circuit, overload or over-temperature is detected

PRODUCT OVERVIEW



VEHICLE JUMPSTARTING INSTRUCTIONS

NOTE: Instructions for negative grounded vehicles only.

WARNINGS

1. Charge your jumpstarter for 24 hours prior to first use and as soon as possible after each use.
2. Before making any connections, check the jumpstarter battery status by pressing the red BATTERY STATUS button:

Green LED: Full Charge. Ready to use.

Yellow LED: Medium charge. Ready to use, but recharge recommended.

Red LED: Low charge. Need to be recharged and Not recommend to use.

Flash Red LED: Need to be recharged immediately.

3. Turn your vehicle's ignition to OFF before connecting the jumpstarter's clamps to your vehicle.
4. On a Negative grounded vehicle, connect to the positive battery post and a battery ground. Connect the red positive (+) clamp to the positive (+) terminal of the vehicle battery, then connect the black negative (-) clamp to the negative (-) terminal of the battery or a non-moving metal part of the engine block. DO NOT CONNECT TO FUEL LINE. Always double check you have proper connections.
5. Check Jumpstarter Status LED:

Red: If illuminated check that the vehicle being jumpstarted is 12V, or the jumpstart cables are incorrectly connected onto the vehicle battery. This jumpstarter is suitable for 12V vehicles only.

Green: Ready to jumpstart.

None: If neither LED is illuminated, check that the clamps are correctly connected with good contact. If the LED's remain unilluminated it may indicate that the vehicle's battery is below 2.6V, the jumpstarter will only activate when connected to a battery above 2.6V. In this circumstance ensure all connections are correct and then press the OVERRIDE button for 2 seconds to engage the jumpstarter.

6. Turn the vehicle's ignition to ON and start the vehicle.
7. After the engine has started leave the clamps connected for 40 seconds to allow the jumpstarter recovery to occur (optional). Then disconnect the black clamp and then the red clamp.
8. Recharge jumpstarter.

Note: With the use of RRT the jumpstarter does not require charging during the working day, however while not it use it should be stored on the docking station to increase the life by 10–20%.

CHARGING WITH AC ADAPTOR

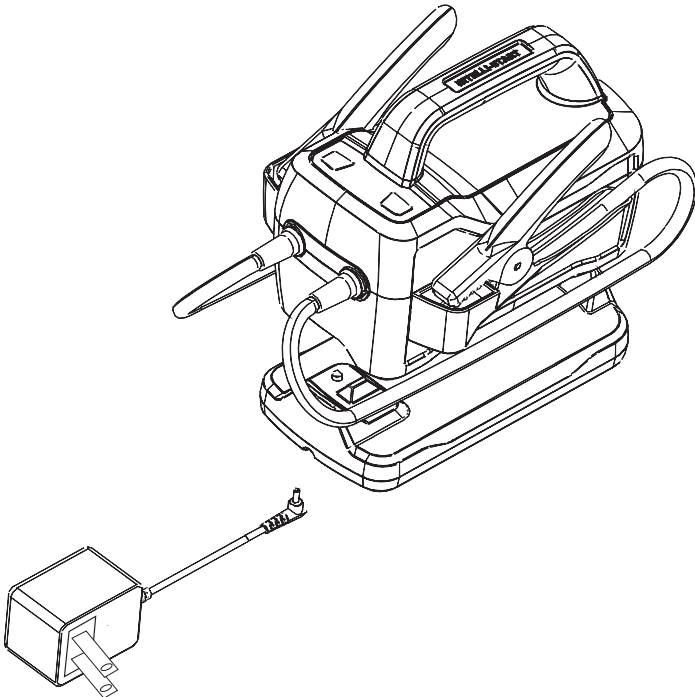
IMPORTANT: DO NOT POWER ANY APPLIANCE FROM THE JUMPSTARTER WHILE IT IS BEING CHARGED USING THE AC CHARGER.

1. To charge, plug the output end of the AC adaptor into the charging socket (back of charging dock) and connect the AC adaptor to a 110V outlet and turn it 'ON' .
2. The Battery Status LED will illuminate orange when charging and green when the jumpstarter is fully charged. The jumpstarter will automatically stop charging and the jumpstarter will initiate maintenance charge mode keeping the battery fully charged and ready for use without the risk of overcharging.

Charging time: 4–6 hours if the battery is down to 50% of its capacity.

WHEN TO CHARGE

To prolong the life of your jumpstarter battery it is recommended to charge the jumpstarter after each use. If the jumpstarter is not being used, it is recommended to leave the jumpstarter permanently on charge ensuring the battery is always maintained fully charged and ready for use. It is recommended to charge the jumpstarter before the first use as the jumpstarter is shipped only partially charged.



FREQUENTLY ASKED QUESTIONS

Q. Why does my jumpstarter take so long to charge?

- A. Lower charging rate can lengthen the battery life. The built-in charging circuit provides gentle and cell-balanced 2-stage charge for the internal lithium iron phosphate battery.

Q. Can PJ-IS1500-2 jumpstart vehicles at below zero temperature?

- A. If PJ-IS1500-2 operates at temperatures below zero degrees, its jumpstart capacity will be reduced but it will start vehicles with lower clamp output requirements.

Q. Why didn't my jumpstarter start my vehicle?

- A. There could be a number of reasons why the jumpstarter did not start your vehicle. Check the following:
 1. Ensure the jumpstarter is fully charged. Press the BATTERY STATUS button to check the condition of the battery.
 2. Ensure you have followed the correct operating procedure. Refer to page 7 (Vehicle Jumpstarting Instructions)
 3. Ensure the vehicle operates at 12V DC.
 4. If the ambient temperature is low < 59°F (<15°C), the jumpstarter capacity will be reduced. Repeat the jumpstart routine 1–3 times as the battery performance will improve with each jumpstart.
 5. Ensure the vehicle being jumpstarted does not require a clamp output of greater than 700 Amps in order to jumpstart the vehicle.

Q. What is Peak Amps?

- A. Peak amps is the maximum current the battery in the Jumpstarter can produce.

Q. What is Clamp Power?

- A. Clamp power is the maximum current available at the clamps.

WARRANTY STATEMENT

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The product is not to be returned to the place of purchase. Warranty claims must be made directly with BWI USA. Warranty claims can be made electronically via support@bwi.inc or by contacting BWI USA at **888-489-9820**. All warranty claims must be made by the original purchaser and include proof of purchase. Pictures of the product may be required as well.

Products may be repaired or replaced at discretion of BWI USA. Product returned to BWI USA must be sent prepaid using include the RMA number supplied by BWI USA or shipment will be returned. Replacement or repaired products will be shipped out prepaid by BWI USA.

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