



Personal Power Pack Jump Starter

USER MANUAL

SJS1500

For use with MOST Vehicles :

UP TO 4.2L (4200cc) DIESEL Engines **

UP TO 7L (7,000cc) PETROL Engines **



1500 Amp

Max. Cell Power *

600 Amp

Max. Peak Clamp Power *

300 Amp

Max. Start Clamp Power *

Smart Jump Starters Pty Ltd

Queensland AUSTRALIA

www.smartjumpstarters.com.au

DEFINITIONS

* **Max. Cell Power** is the absolute maximum current output of the battery cell.

***Max. Peak Clamp Power** is the maximum peak current available at the jumper clamps for initial turn over of the engine when attempting a jump start.

***Max. Start Clamp Power** is the maximum start current available at the jumper clamps to keep the engine turning over when attempting a jump start .

** **Vehicle Engine Parameters** are quoted on the basis that the vehicle attempting to be jump started only has a flat battery and the starting system of the vehicle is in good order .

TECHNICAL SPECIFICATIONS

Size: L: 185mm W : 85mm H : 38mm (Power Pack only)

Weight: 550g (Power Pack only)

Battery : 12v Lithium Polymer 16,000mAh (60 Whr) 3S

Max. Current : 1500A Absolute . 600A PEAK at clamps 300A START at clamps

Output: Jump Port 2vDC .

Device powering 12v DC up to 180watts . Use SSCFCL156 Adaptor NOT INCLUDED

Digital Charging Ports : . USB x 2 5V 2.1A x 1 5v 1A x 1

Battery Chargers : AS approved 240vAC/15v 1A DC . 12vDC/15vDC 1A Car Charger

Recharge Time : 4 hrs from flat with 240v charger . 8hrs with Car charger

Charge Indicator : Backlit LCD Display screen

Self Discharge Rate : approx. 0.2V per month depending on ambient storage temperature

Protection & Safety : Reverse Current , Reverse Polarity , Short Circuit , Overtemp,

Overcranking., Surge , Voltage Differential , Overload Reset, Over Charge, Over Discharge

LED Flashlight: 3 Mode , Full , S.O.S , Emergency Flash

Operating Temperature Range : — 20 deg C to 60 degC

IMPORTANT

All PERSONAL POWER PACK JUMP STARTERS are designed to be used as an EMERGENCY JUMP STARTER and a PORTABLE POWER SUPPLY to enable charging of most digital devices. They are capable of jump starting MOST VEHICLES WITH FLAT BATTERIES . They are NOT a vehicle battery charger.

THIS PRODUCT WILL NOT RECTIFY EXISTING OR APPARENT STARTING SYSTEM PROBLEMS .

THEY ARE NOT TO BE USED OR ATTEMPTED TO BE USED AS A PERMANENT POWER SUPPLY FOR ANY VEHICLE.

SMART JUMP STARTERS PTY LTD Queensland AUSTRALIA

SJS1500 POWER PACK FUNCTION DETAILS



1. **LED FLASHLIGHT**
2. **LCD DISPLAY SCREEN**
4. **MODE SWITCH**
5. **(a) USB DIGITAL CHARGE PORT 5V 2.1A DC**
5. **(b) USB DIGITAL CHARGE PORT 5V 1A DC**
6. **CHARGING INPUT PORT**
7. **ON / OFF SWITCH**
8. **JUMP PORT**



**LOW VOLTAGE OVERRIDE
SWITCH**

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SJS1500 ACCESSORIES INCLUDED



- A 240V AC / 15V DC 1A BATTERY CHARGER**
Part No. SSC01BC



- B 12VDC / 15VDC 1A CAR CHARGER**
Part no. SSC01CL



- C JUMPER LEADS *JUMP START SAFE***
Part No. JSSJL20



- E USB 5V 2 IN 1 ADAPTOR CABLE**
Part No. SJS21USB

CHARGING THE POWER PACK

Before initial use please fully charge the Power Pack with either the 240v Wall Charger (A) or the Car Charger (B) .

WARNING : ONLY USE THE BATTERY CHARGERS SUPPLIED WITH YOUR SJS1500 KIT . THE USE OF ANY OTHER BATTERY CHARGERS COULD DAMAGE THE POWER PACK RESULTING IN CATASTROPHIC DAMAGE BY FIRE OR OTHER AND OR RESULT IN SERIOUS INJURY . THE USE OF ANY OTHER BATTERY CHARGERS WILL AUTOMATICALLY VOID THE WARRANTY ON THIS PRODUCT .

240v BATTERY CHARGING

Make sure the ON/OFF Switch (7) is in the OFF position . Plug the jack plug of the 240v Wall Charger (A) into the Charging Input Port (6) on the Power Pack . Plug the Charger into a 240v wall socket . The LCD Display Screen (2) will light up and the numbers in the display will flash . After 5 seconds the LCD Display Screen (2) will dim but the numbers will still be flashing . Charge time from flat is approximately 4 hrs at which time the numbers in the LCD Display Screen (2) should be 100% and NOT flashing . To illuminate the LCD Display Screen at any time push the Mode Switch (4) once and the screen will illuminate . Fully charged , the power pack should have Voltage of between 12.45 v to 12.5v . To measure the Power Pack voltage , lift the rubber flap over the Jump Port (8) and using a good quality Multimeter put the probes into the Jump Port (8) output terminals and note the DC voltage reading on the Multimeter . (Note: Multimeters can vary in accuracy from brand to brand) .

IN CAR CHARGING

Follow the procedure above except plug the Car Charger (B) into the female 12v power socket of the vehicle . Make sure the 12v power socket is in good condition . The RED led on the end of the Car Charger (B) will illuminate indicating the charger has power . Allow up to 8 hrs to charge the Power Pack from flat when In Car Charging .

OVER CHARGE PROTECTION

The SJS1500 has OVERCHARGE PROTECTION . Once the Power Pack is fully charged the charging process will cease . Leaving the Power Pack on charge when fully charged will not harm the Power Pack . However it is recommended to not continually charge the Power Pack for more than a few days at a time .

OVER DISCHARGE PROTECTION

The SJS1500 has OVERDISCHARGE PROTECTION . Lithium batteries cannot be allowed to be completely flat . When the Power Pack LCD Display Screen (2) is showing 0% or not illuminating the LCD Display Screen the Power Pack is deemed flat at 8.55V .

POWER PACK VOLTAGE RANGE

The Lithium battery cell in the Power Pack has a range of 12.5v fully charged to 8.55v flat .The LCD Display Screen (2) displays battery charge in percentages 0 % to 100% .

IT IS RECOMMENDED THAT AFTER EACH USE ,WHETHER THAT BE JUMP STARTING OR DIGITAL DEVICE CHARGING, TO RECHARGE THE POWER PACK FULLY. RECHARGING THE POWER PACK REGULARLY ,EVEN IF FULL ,EVERY 6 TO 8 WEEKS WILL ENHANCE THE BATTERY CAPACITY LIFE OF THE POWER PACK GREATLY .

The SELF DISCHARGE RATE of the Power Pack battery cell is approximately 0.2v per month dependant on ambient storage temperature .

ALWAYS STORE THE POWER PACK IN ITS CARRY BAG WITH ON/OFF SWITCH(7) TO OFF.

LCD DISPLAY SCREEN (2)

The LCD Display Screen reads Power Pack Voltage 0% to 100% . To check the Power Pack charge capacity at any time by switching the ON/OFF Switch (7) to ON . The LCD Display Screen will illuminate and show the percentage number . After 3 seconds the backlight will go off . If not using the Power Pack for Digital device charging the LCD Display Screen will turn off due to power saving mode .

When charging digital devices the LCD Display Screen will initially illuminate then the backlight will go off but the charge indicator percentage will still be showing . To illuminate the LCD Display Screen at any time push the Mode Switch (4) once .

CHARGING DIGITAL DEVICES

USB 5V 2.1A /1A

Check the charging requirement voltage and current for your device from the manufacturer specification . Switch the ON/OFF Switch (7) to ON . The LCD Display Screen (2) will illuminate. Plug the USB 2 in 1 Adaptor Cable (E) into either of the USB Digital Charge Ports (5a) (5b). Select 1 or 2 of the adaptors on the cable and plug into the charge port of your digital device . You can also use the original USB charge cable supplied with your device .

NOTE : Some brands of phones or tablets have blocking software not allowing non genuine cables to charge your device . Adjust the settings on the device to unblock the software .

POWERING 12V DC DEVICES

The SJS1500 Power Pack is able to power 12v devices up to 180watts 15Amps . Lift the rubber flap over the Jump Port (8) . Plug the SSCFCL Female Cig Lighter Adaptor (optional accessory not supplied) into the Jump Port (8) . Connect your device via a male cig lighter plug into the SSCFCL156. You can check the Power pack capacity at any time by switching the ON/OFF Switch (7) to ON and the LCD Display Screen will show remaining capacity . To power 12v device from the Jump Port the ON/OFF does not necessarily have to be ON . DO NOT USE ANY OTHER FORM OF PLUG OR CABLES CONNECTED TO THE JUMP PORT OTHER THAN GENUINE SJS ACCESSORIES .

LED FLASHLIGHT (1)

The LED flashlight (1) has 3 modes . Switch the ON/ OFF Switch (7) to ON . Push the Mode Switch (4) and hold for 3 seconds for FULL push Mode Switch again for S.O.S. push Mode Switch again for EMERGENCY FLASH . Push and hold Mode Switch for 3 secs to turn off .

JUMP STARTING A VEHICLE

WARNING : DO NOT USE ANY OTHER JUMPER LEADS OTHER THE THOSE SUPPLIED WITH THE SJS1500KIT . THE JUMPER LEADS (Part No, JSSJL20) HAVE MANY PROTECTION FEATURES AND ARE SPECIFICALLY DESIGNED FOR THE SJS1500 POWER PACK AND USE THE LATEST *JUMP START SAFE Technology* TO PROTECT THE POWER PACK FROM DAMAGE AND FOR THE SAFETY OF THE END USER . THE USE OF ANY OTHER TYPE OR FORM OF JUMPER LEADS OR CABLES IS STRICTLY PROHIBITED AND COULD CAUSE CATASTROPHIC DAMAGE BY FIRE OR OTHER TO THE POWER PACK OR CAUSE SERIOUS INJURY TO THE END USER .

THE USE OF ANY OTHER JUMPER LEADS OR CABLES WILL VOID WARRANTY .



**SJS1500 JUMP START SAFE JUMPER LEADS\
Part No. JSSJL20**

Low Voltage Override Switch

Determine that the vehicle engine size is within the design parameters for this product .

Switch the ON/OFF Switch (7) to ON . Check the LCD Display Screen (2) to ensure there is at least 75% battery capacity to enable a jump start attempt . The ON/OFF Switch does not need to be ON for jump starting .

Lift the rubber flap over the Jump Port (8) . Plug the Jumper Leads (C) EC5 blue connector plug into the Jump Port . Follow the INSTRUCTIONS BELOW CAREFULLY .

- 1. PLUG THE JUMPER LEADS INTO THE POWER PACK . LED light should be flashing **RED / GREEN** .The jumper leads are NOT LIVE at this stage .**
- 2. Identify the Positive(+) and Negative (-) battery terminals on the vehicle battery . Connect the Red (+) jumper clamp to the Positive (+) battery terminal and the Black (-) jumper clamp to the Negative (-) battery terminal . LED light should be **SOLID GREEN** . THE VEHICLE IS NOW READY TO BE JUMP STARTED .**
- 3. Turn the engine over at INTERVALS OF **5 SECS ONLY** each time. When engine has STARTED the LED light should turn to **RED SLOW FLASH** indicating the REVERSE CHARGING PROTECTION is enabled . DISCONNECT THE JUMPER LEADS AND POWER PACK FROM THE VEHICLE **IMMEDIATELY** THE VEHICLE HAS STARTED . STORE THE POWER PACK AND JUMPER LEADS IN THEIR CARRY CASE .**

**IF YOU SEE ANY OTHER LED LIGHT CODES AND THE VEHICLE WILL NOT TURN OVER .
CHECK THE TROUBLE SHOOTING GUIDE ON THE NEXT PAGE**

JUMP START SAFE

JUMPER LEADS Part No. JSSJL20 LED IDENTIFICATION CODES AND TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE / CHECK	SOLUTION
GREEN SLOW FLASH When jumper leads are plugged into power pack.	Low Power Pack Voltage . Too low for jump starting. (10.5V)	Fully charge Power Pack (12.5V)
RED/ GREEN FLASH When jumper clamps connected to vehicle battery.	Low Vehicle Battery Voltage 1. Bad or poor connection of jumper clamps to battery terminals . 2.VEHICLE BATTERY VOLTAGE IS LESS THAN 2V .	1. Clean dirty battery terminals . Make sure clamps have secure connection to terminals . 2. See below how to use the LOW VOLTAGE OVERRIDE .
SOLID RED When jumper clamps connected to vehicle battery .	Incorrect connection of clamps to battery terminals .	Remove clamps and connect correctly . Red to (+) Black to (-)
RED SLOW FLASH When jumper clamps connected to vehicle.	Vehicle battery voltage (>12.5v) higher than power pack voltage .	1.Make sure Power Pack is fully charged (12.5v) . Turn on headlights and heater fan to try and lower the vehicle battery voltage. LED light should then turn SOLID GREEN . 2. Vehicle does not have flat battery but another starting problem .
RED FAST FLASH Whilst turning engine over .	High temperature detected in jumper leads .	Too many 5 sec. continuous start attempts . Let jumper leads cool down to reset to SOLID GREEN .

LOW VOLTAGE OVERRIDE function can **ONLY** be used when Vehicle battery voltage is less than 2V and the LED light is showing **RED/GREEN FLASH** with the jumper leads **CONNECTED** to the vehicle battery .

Hold the Low Voltage Override button on for 2 secs and Led light will go **SOLID GREEN**. Start the engine and **DISCONNECT** the jumper leads from the vehicle battery **IMMEDIATELY** . The Low Voltage Override function will time out after 30 seconds .

!!!!!!! WARNING !!!!!!!!!!!!!!! WARNING !!!!!!!!!!!!!!! WARNING !!!!!!!!!!!!!!! WARNING !!!!!!!

THIS FUNCTION IS FOR EMEGENCY USE OR TESTING PURPOSES ONLY .

RESETTING THE POWER PACK

The Power pack has Overload Protection . If the Power Pack detects an overload situation either during jump starting or digital charging it will shut down .

To rest the power Pack simply recharge the Power Pack for 10 to 15 secs with either the 240v Wall Charger (A) or Car Charger (B) .

STORAGE AND MAINTENANCE

Always store your Power Pack in the Carry Case supplied in a moisture free environment .

Avoid storing the SJS1500 kit in areas of excessive heat where ambient temp is above 60 deg C

Only clean the Power Pack and accessories with a dry cloth .

Regular recharging of the Power Pack is recommended every 6 to 8 weeks which will enhance the battery cell capacity life greatly .

RECOMMENDED GENUINE SJS ACCESSORIES .(Not Included)



Part No. SSCFCL156

For powering 12v DC devices up to 180 watts 15 amps .

WARRANTY Smart Jump Starters Pty Ltd warrants all of its products to be sold free of defects in materials and workmanship .

Additionally, our goods come with a 12 month guarantee that cannot be excluded under the Australian Consumer Law.

You are entitled to a replacement or refund for an unforeseeable major failure and to compensation for any other reasonable foreseeable loss or damage . You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure . Please refer to the User Manual provided with these goods for warranty conditions .

WARNING Please read the User Manual and all Instruction Cards and Labels on this product before using your Smart Jump Start Charger .

Only use this product as per the Instructions provided .

Only use the Battery Chargers supplied with this product . The use of any other Battery Charger is strictly prohibited and could cause catastrophic battery cell damage or serious injury .

**THE POWER PACK IS NOT TO BE USED AS A PERMANENT OR FIXED POWER SUPPLY
IN PLACE OF THE ORIGINAL BATTERY IN THE VEHICLE OR DEVICE .**

WARRANTY EXCLUSIONS

- If the Power Pack or any accessories have been misused , dropped , exposed to water or damaged in any way by use outside the design parameters of the product .
- The use of any other jumper leads or cables other than that supplied with this product .
- The use of damaged jumper leads .
- The use of any other cable or item that could be connected to the jump port of this product to power 12v devices other than Genuine SJS Accessories .
- If the Power Pack case has attempted to be opened or has been opened and or attempted repair .
- General mistreatment or poor care of the product .

For Technical Support

Please contact Smart Jump Starters Pty Ltd

www.smartjumpstarters.com.au