SPECIFICATIONS:

Anderson style plug output:	50 Amps
12V DC socket output:	10 Amps
12 V DC Heavy Duty Socket Output:	15 Amps
USB Output:	5V/2.4A x 2
Charging input plug:	Maximum charger current 16Amp
Low voltage warning:	When the display is on, if the battery voltage is lower than 12.3V, the low voltage Indicator light flashes and an audible alarm sounds once every 25 seconds. (Function is disabled during charging). When the display is off, only the audible alarm will be heard every 25 seconds.
LED Screen display:	To turn on, press ON/OFF switch. To turn off, press ON/OFF switch again. Control hub displays the voltage of the power pack units, as well as capacity, total connected output current, power on, charger input, low voltage and overload warnings and output status of all outlets.
Installation method:	Can be directly fitted onto the power pack unit, or can be installed remotely with additional extension cable (not supplied) - see page 9.
Charging Status:	When charging, the voltage and current only displays charging status.

POWER PACK CONTROL HUB

Recyclable cardboard

Manufactured and packaged for SRGS PTY LTD ABN 23 113 230 050
751 Gympie Road, Lawnton, Queensland 4501, Australia
MADE IN CHINA

RIDGE RYDER 4X4 ACCESSORIES

PLU: 573212

Battery Warning

WARNING:

BATTERY ACID IS HIGHLY CORROSIVE; ALWAYS WEAR PERSONAL PROTECTIVE EQUIPTMENT (PPE) WHEN WORKING ON OR AROUND LEAD-ACID BATTERIES. *FIRST AID & BATTERIES*

- For advice, contact the Poisons Information Centre in Australia (PH: 13 11 26) or the National Poisons Centre in New Zealand (PH: 0800 764 766)
- If battery acid makes contact with the skin or clothing, wash immediately with soap and water.
- If battery acid makes contact with the eyes, hold eyelids apart and flush the eye continuously with fresh running water for at least 15 minutes or until the Poisons information centre advises you to stop.

If battery acid is swallowed, **do not** induce vomiting. Drink a glass of water and seek medical assistance.

WARNING:

SEALED LEAD-ACID RECHARGEABLE BATTERIES STILL GENERATE HYDROGEN GAS DURING THE CHARGING PROCESS.

HYDROGEN GAS IS:

- **EXPLOSIVE**
- **POISONOUS TO BREATHE**
- **HIGHLY FLAMMABLE**

TO AVOID AN EXPLOSION OR THE POSSIBILITY OF BEING SPLASHED FROM BATTERY ACID.

- **ALWAYS RECHARGE BATTERIES IN A WELL-VENTILATED AREA**
- **IF INSTALLED IN A SEALED CABINET, ALLOW FOR EXTERIOR VENTING**

DO NOT OPERATE OR STORE NEAR FLAMMABLE GOODS OR COMBUSTABLES

Fitting Instructions for Power Control Hub

The power control hub is designed to be securely fitted to the power pack unit(s), using locking tabs. These locking tabs are positioned at the front of each battery, therefore the mounted location of the Power Control Hub can be on any battery depending on the total you have chosen to stack together.

Additionally, by using an extension cable (not supplied), the power control hub can be fitted and operated remotely from the power pack, if the batteries are mounted underfloor, or in a concealed location.
We recommend to first assemble your power pack stack together if using with multiple battery packs (Please refer to the Power Pack Stackable Battery Unit instruction manual for correct stacking process)

1. Choose desired mounting location of power control hub, if using multiple stacked batteries.

2. Remove plastic terminal covers from chosen mount location, keep aside for later fitment.
3. Unscrew allen bolts from battery terminals, refit through correct polarity wire eyelets and remount to battery terminals. BLACK TO BLACK – (NEGATIVE TO NEGATIVE), RED TO RED (POSITIVE TO POSITIVE).

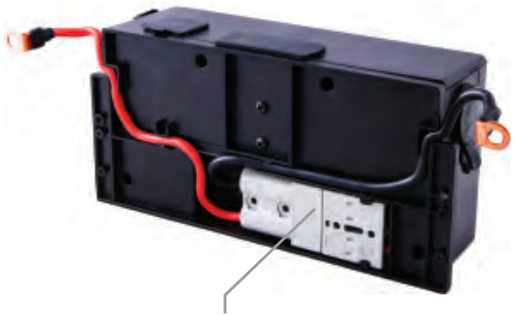
4. Slide power control hub lock tabs into correct position and slot in firmly. Use the small phillips screws to further secure the power control hub in its mounting channel.

5. Re-fit plastic terminal covers to front of terminals by snapping back into place.

Combine Power Pack Unit(s) with Power Control Hub

The power control hub safely and conveniently distributes power from the power pack(s).

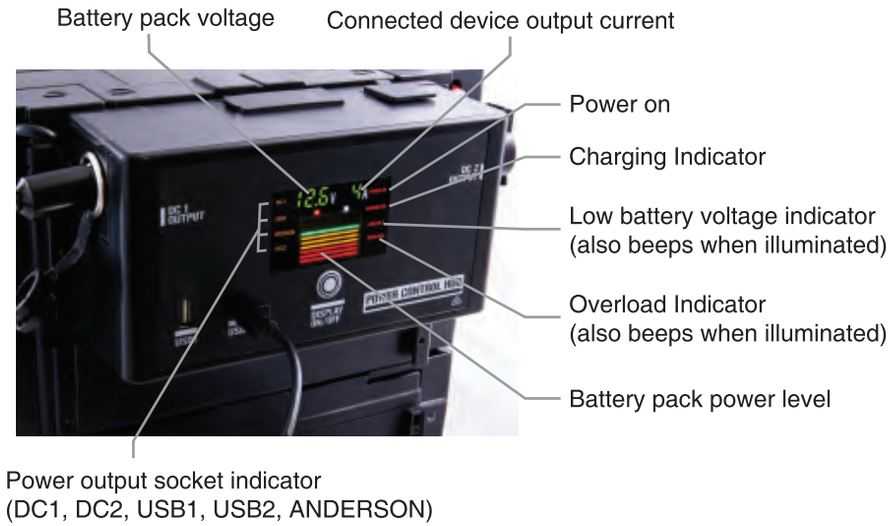
The power control hub has the following power output sockets:



- Overload protection warning for cigarette light output: Over 15A – Beeping sound and OVERLOAD with DC1 or DC2 LED flashing (dependant on where overload is occuring).
- Overload protection warning for Anderson plug output: Over 50A – Beeping sound and OVERLOAD with ANDERSON LED flashes.

Simply plug in your device's power plug into the respective socket, output will commence once a connection is made.

The power control hub is fitted with an easy to read LED display which will show simultaneously:



To turn the display on or off, simply push the "Display" button. The display will stay on indefinitely. Press Display button again to switch off.
The power control hub will beep as a warning if the output is overloaded, if this occurs please reduce the load on the relevant connection. The overload limits are as follows:

- Anderson style connector – 50A output MAXIMUM – beeping warning, OVERLOAD with ANDERSON indicator light flashes.
- 12V sockets (each) – 15A output MAXIMUM – beeping warning, OVERLOAD with DC1or DC2 indicator light flashes.
- 2 x 5V USB – 3A max each – internal circuit breaker will cut off output power – no beeping.
- If the LED Screen is off, any overload will be just be beeping with no LED indicator flashing.

DO NOT EXCEED ABOVE OVERLOAD LIMITS

Recharging your power pack

The power pack units and power control hub have been specifically designed to behave just like a normal lead acid battery. As a result you will not require a specialised battery charger to recharge. Any SCA smart battery charger between 2.5Amp and 15Amp output will be ideal depending on how many batteries you have connected to your pack. We recommend recharging the battery pack through the power control hub. **DO NOT USE A BATTERY CHARGER LARGER THAN 16 AMPS.**

There will be a low voltage warning when the voltage level of the battery reaches 12.3V. Every 25 seconds, the low voltage warning LED will flash, and a beeping sound will occur.

Recommend SCA charger models:

- SCA12V-2.5A PLU 326658
- SCA12V-4A PLU 343261
- SCA12V6A7SL PLU 544705
- SCA12V10A7SL PLU 544706
- SCA12V15A7SL PLU 544707

Battery Charging instructions:

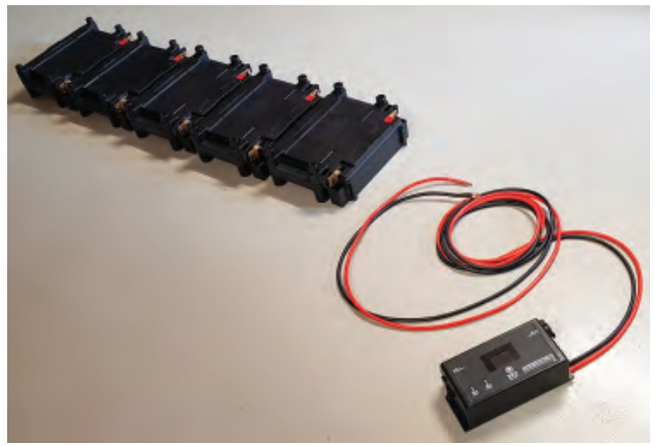
1. Connect the battery charger connector plug into the charger port at the top of the power control hub.

2. Switch the charger on and set the charger to LEAD ACID if applicable
3. Turn the display ON/OFF button on when charger is connected, the charging indicator lights up. Display shows the voltage and current. When there is no charging, the display shows battery voltage capacity and total current of each output port.

4. Once charging is complete, turn off and disconnect the charger.
5. The power control hub display will show all bars lit, with the top 2 green. Voltage will be 12.8V – 13.0V.

Alternate Mounting Options

The power pack, together with the power control hub, offer a unique versatility as they can also be configured horizontally. This is ideal for situations where a smaller height profile is required, such as underfloor, or cargo areas.



REMOTE AND UNDERFLOOR MOUNTING WILL REQUIRE A HIGH APTITUDE OF ELECTRICAL KNOWLEDGE, WE RECOMMEND PROFESSIONAL AUTOMOTIVE ELECTRICAL INSTALLATION IF INSTALLING UNDERFLOOR, OR IF CABLING REQUIREMENTS ARE LONGER THAN RECOMMENDED IN THE FOLLOWING TABLE.

If you are intending to mount in an underfloor configuration with the power control hub remotely installed, we recommend affixing each battery securely using floor mounting points with suitable cam buckle or ratchet type tie down straps positioned across the battery width as close to the front or rear connector posts as possible. Please ensure the mounting location has adequate free air ventilation.

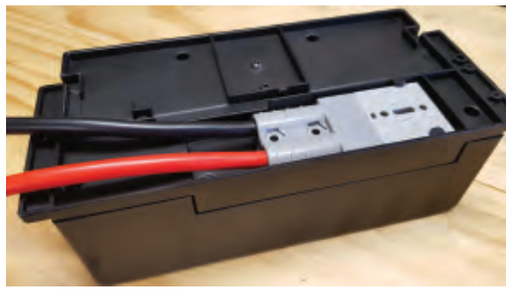
For these types of installation, the copper battery joining tabs will need to be substituted with eyelet terminated insulated copper cable and affixed using the allen bolts provided, making a parallel connection: BLACK TO BLACK – (NEGATIVE TO NEGATIVE), RED TO RED (POSITIVE TO POSITIVE).

To determine the minimum sized connector cable required for both the battery connections and the remote cable for the power control hub, please use the below table:

Power Control Hub Remote Cable - Minimum Requirements

Cable Length (round up to next metre) - match to input or output	Minimum Remote Cable Specification (AWG)	Minimum PBG-26 Battery connection Cable specification (AWG)	Cross Sectional Cable Area mm2 (does not include insulation)
Up to 1M	8 AWG	8 AWG	10
2M	6 AWG	X*	16
3M	6 AWG	X*	16
4M	4 AWG	X*	25
5M	4 AWG	X*	25
	*do not exceed 5M of remote cable length	*do not exceed 1M between batteries	

Once you have established the correct cable size for the remote lead, simply fit a 50A Anderson style plug (not supplied) to one end and terminate the other end with eye terminals. Connect the 50A Anderson style plug to the back of the Power Control Hub as shown below.



Safety/Warning for battery charger

- Before using the SCA fully automatic battery chargers ensure the instructions have been read and understood.
- The battery charger is not intended for use by young children or infirm persons. Please keep away from pets.
- SCA fully automatic battery chargers are designed to charge most 12 volt battery types including: Lead acid, Deep Cycle, Calcium, Gel and Absorbed Glass Matt (AGM) batteries and flooded and maintenance free configurations.
- Always wear the appropriate Personal Protective Equipment (PPE) when working near batteries. This includes cracks or exposed wires.
- When working with Lead Acid batteries remove all jewellery including watches and rings. Use insulated tools to ensure prevention of a battery short should the metal tool make contact with the battery terminals.
- Ensure battery is charged in a well ventilated area. Explosive gases may escape from the battery during charging. Never charge a battery in a close off space or in an area without ventilation.
- Never smoke, use an open flame or create sparks near a battery or charger whilst charging as gases may cause an explosion. Please keep burning cigarettes, flames or other ignition sources away from the charging battery at all times.
- SCA fully automatic battery chargers are designed for indoor use only, and are not water resistant or waterproof. Do not expose the battery charger to water or liquids.
- Do not attempt to use the battery charger if the cables or plugs are damaged. These units do not contain serviceable parts. To avoid a hazard, ensure that any damage to the unit, cable or plugs are replaced by the manufacturer or service agent/qualified technician.
- Do not disassemble the battery charger. The warranty will be void if this instruction is ignored.
- Ensure the battery charger is off before connecting and disconnecting from the battery. Once connected, power can be turned on.
- Ensure vehicles ignition is switched off before charging the battery.
- Do not place the battery charger where it is not able to get adequate ventilation. Do not place on fabric/leather/vinyl seats on the battery or balanced in the engine bay.
- Not capable for charging a frozen battery, non-rechargeable, lithium or dry cell battery.

First aid

- For advice, contact the Poisons Information centre in Australia (PH: 13 11 26) or the National Poisons Centre in New Zealand (PH: 0800 764 766)
- If battery acid makes contact with the skin or clothing, wash immediately with soap and water.
- If battery acid makes contact with the eyes, hold eyelids apart and flush the eye continuously with fresh running water for at least 15 minutes or until the poisons information centre advises you to stop.
- If battery acid is swallowed, do not induce vomiting. Drink a glass of water and seek medical assistance.

WARRANTY

This product is guaranteed against defects for a period of 12 months from date of purchase. This warranty is provided by SRGS PTY LTD, ABN 23 113 230 050 of 751 Gympie Rd Lawton QLD 4501 Ph (07) 3482 7500. Supercheap Auto will offer a repair, replacement product or store credit if the product is assessed as being defective during the warranty period.

To claim under this warranty, take this product to the Front Service Desk of your nearest Supercheap Auto store. For store locations, visit www.supercheapauto.com.au (AUS) or www.supercheapauto.co.nz (NZ). You will need your receipt or proof of purchase. Additional information may be requested of you to process your claim. Should you be not able to provide proof of purchase with a receipt or a bank statement, identification showing your name, address and signature may be required to process your claim. This product may need to be sent to the manufacturer to assess the defect before determining any claim. Faults or defects caused by product modification, misuse and abuse, normal wear and tear or failure to follow user instructions are not covered under this warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably 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. Any expenses incurred relating to the return of this product to store will normally have to be paid by you.

For more information contact your nearest Supercheap Auto store.

The benefits to the consumer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods and services to which this warranty relates.