



When to Charge

Your Jump Starter is shipped fully charged, however, an extended period of time may elapse in shipment or storage before the Jump Starter is purchased. Therefore you should charge the Jump Starter for 12 hours before using it for the first time. It is recommended to charge after each use. If the Jump Starter is not being used, it is recommended to leave it permanently on charge ensuring the battery is always maintained fully charged and ready for use. This will also maintain battery life. Do not allow Jump Starter to become very flat. If the Jump Starter's battery is below 12.6v in 12v mode or below 25.2v in 24v mode, ensure the Jump Starter is charged immediately.

When Charging

- Select Battery Charge position (24 Volts)
- Plug Charger into charging socket on Jump Starter.
- Turn Battery Charger on and leave till next required

Vehicle Jump Starting Instructions

Note: Instructions for negatively earthed vehicles only

- Before making any connections, check the Jump Starter is in the OFF position and battery cables and clamps are in good condition.
- Ensure correct voltage is selected on the Jump Starter for the type of vehicle being Jump Started, 12V mode for 12V vehicles and 24V mode for 24V vehicles
- Turn your vehicles ignition OFF before connecting the Jump Starter's clamps to your vehicle
- Follow connection procedure below carefully
- Connect the Red **POSITIVE (+)** clamp to the positive (+) terminal of the battery in the vehicle and the Black **NEGATIVE (-)** clamp to any non-moving metal part of the engine block or chassis as far away from the battery as possible. **DO NOT CONNECT TO FUEL LINE.** Always double check that you have the proper connections

Note: If the buzzer sounds when the clamps are connected, **STOP IMMEDIATELY** and disconnect as there is a reverse connection somewhere. Recheck wiring connection and proceed.

- Turn the vehicle's ignition to ON and start the vehicle. If the Jump Starter fails to start your vehicle check that the clamps are correctly connected with good contact. Also check if there is another reason why your vehicle won't start. Is there fuel in the Vehicle?
- After the engine has started, turn the power switch on Jump Starter to the OFF position.
- Disconnect the Black Clamp then the Red Clamp
- Plug the Jump Starter back into Durst Smart Charger **BCS-A2404**

Accessories

- Fuse replacement Part Number for this unit is: **BJF-275**

REV: NIL

Kevin Pitt

INS: 20

DATE: 24/02/14

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INS MANUAL

OPERATING INSTRUCTIONS

Model

BJT-4000 **RHINO T**

Description

12 Volt and 24 Volt Mobile Jump Starter.



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Durst Automatic Battery Chargers

BCS-A Series Set & Forget

6, 12 & 24 Volt. 3 to 30 Amps

N19332 CE

Features:

1. Compact size & light weight.
2. The high efficiency of Durst BCS-A Battery Chargers reduces power consumption (Cheaper to run) & provides 25% more power saving than other ordinary Battery Chargers.
3. Short-circuit Protection: Charger Output (O/P) cuts-off automatically when a short circuit occurs.
4. Overload Protection: Charger O/P current-limited automatically when overloaded.
5. Reverse Polarity Protection: Charger O/P cuts-off automatically when battery is Reverse connected.
6. Automatic set & forget multi-rate charging function: On – Boost Charge, Equalizer Charge (Charges Quickly when the battery is low) and Floating Charge (Charges slowly when the battery is high)
7. Unique LCD & LED (or LED Indicator Only) Display: Indicates both charger status and battery level. Three LED Display: Red (power on), Yellow (equalizer charge) & Green (floating charge)
8. Advanced SMD Technology offers reliable and robust surface mount circuitry for longevity.
9. Anodized Red Aluminium Housing: Elegant, strong and efficiently disperses heat.
10. Temperature compensation cooling fan is speed controlled to suit charging state.
11. Mounting feet to secure charger, vertically or horizontally.
12. Selecting the correct Durst Battery Charger will prolong battery life.

Operating your new charger:

Mount the charger securely & connect to a standard GPO AC supply.
 Connect the alligator clips to correct battery terminal polarity (Red clip to the Positive Terminal and the Black clip to the Negative Terminal)
 Turn on the power switch, which is located on the front panel of Charger & the Red LED will light & charging commences. The Bi-Coloured LED confirms the other stages Yellow (equalizer charge) & Green (floating charge) stages. Models fitted with the unique LCD display will confirm the charger stage and battery level (refer to Metering, LED/LCD specifications chart)



Durst Automatic Battery Chargers

BCS-A Series Set & Forget

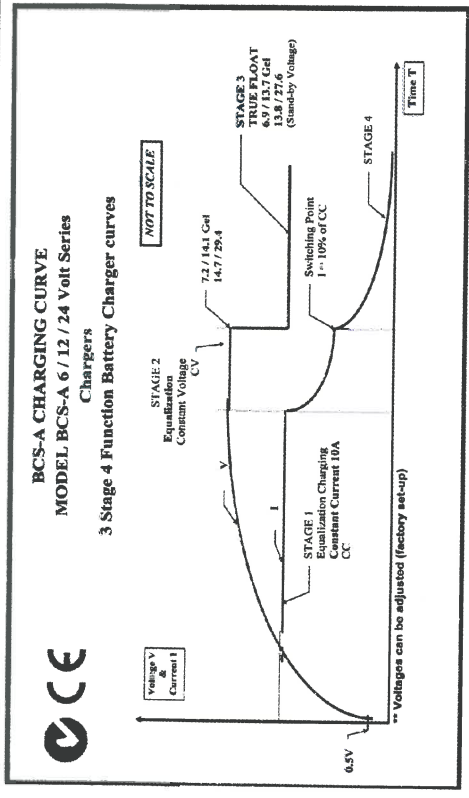
6, 12 & 24 Volt. 3 to 30 Amps

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Notices:

1. Durst Fully Automatic Set & Forget Chargers were designed to be left on permanently and are suitable for Charging: Lead-Acid, Calcium, Gel, Gel-Tech, AGM, Spiral wound and NiMH batteries.
2. Chargers cannot be used as a DC power supply unless connected to a suitable battery.
3. Wear protective goggles and clothing while handling and charging batteries.
4. Avoid charging damaged or incorrect types of batteries.
5. The battery may be damaged if the LED does not change to green after charging for a long time. (Monitor charger & test batteries correctly before charging)
6. Always place the charger in well ventilated and dry environment.
7. The charger was designed with the aluminium housing as a heat sink. For your own safety, avoid touching the case as the temperature may be hot when charging at maximum current.
8. A comprehensive range of Durst Battery Chargers & Testers are available upon request.

LED Indication:		Charging Status LED (Bi-Coloured)	
AC Power Status LED (Red Colour)	On	Off	Green
	AC Power OK	AC Power Fail	Floating Charge
LCD Indication (Standard except BCS-A0610, A1203, A1206 & A2404)			
Charging Status Display		Battery Level Display % Charge & Voltage 12V / 24V	
Float + Charging	Equalize + Charging	100%	75%
Floating Charge	Equalizer Charge	6.95 / 13.9 / 27.8	6.65 / 13.3 / 26.6
		50%	25%
		6.3 / 12.6	5.95 / 11.9
		25.2	23.8





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Durst Automatic Battery Chargers BCS-A Series Set & Forget

6, 12 & 24 Volt. 3 to 30 Amps

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BCS-A MODELS	BCS-A0610		BCS-A0618		BCS-A1203		BCS-A1204		BCS-A1206	
	Meter	LED	LED/LCD	LED/LCD	LED Indicators	Gel Tech	BCS-A2404			
Input	AC 100 ~ 240 Volts									
Voltage AC	47-63Hz									
Frequency										
Boost Volts	7.2	7.2	14.4	14.1	14.4/28.8					
Floot Volts	6.9	6.9	13.7	13.7	13.7/27.4					
Current 6 V	10	18								
Current 12 V			3	4	6					
Current 24 V					4					
Wattage at 6 / 12V	88 W	137 W	44 W	58 W	88 W					
Wattage at 24V	117 W									
Efficiency	> 87% (At Full Load) reduces power consumption									
Protection	Reverse	Yes	Yes	Yes	Yes	Yes				
Short-circuit	Yes	Yes	Yes	Yes	Yes	Yes				
Overload	Yes	Yes	Yes	Yes	Yes	Yes				
Cooling Fan	Speed Control set by Charging Stage Automatically									
Mechanical	Dimensions(mm)	155x70x48		167x103x50		155x70x48				
Weight	0.5 Kgs.	0.9 Kgs.				0.5 Kgs.				

BCS-A MODELS	BCS-A1210		BCS-A1216		BCS-A1220		BCS-A1225		BCS-A1230	
	BCS-A2407				BCS-A2412		BCS-A2414		BCS-A1230	
Dual Channel	LCD & LED Indication									
Meter	AC 100 ~ 240 Vac									
Input	47-63Hz									
Voltage AC	AC 200 ~ 240 Vac									
Frequency										
Boost Volts	14.4 / 28.8	14.4	13.7 / 27.4	14.4 / 28.8						
Floot Volts	10	16	20	25 Dual	30 Dual					
Current 24V	7		12	14	17					
Wattage at 12V	147 W	235 W	294 W	367 W	441 W					
Wattage at 24V	206 W		353 W	440 W	500 W					
Efficiency	> 87% (At Full Load) reduces power consumption									
Protection	Reverse	Yes	Yes	Yes	Yes	Yes				
Short-circuit	Yes	Yes	Yes	Yes	Yes	Yes				
Overload	Yes	Yes	Yes	Yes	Yes	Yes				
Cooling Fan	Speed Control set by Charging Stage Automatically									
Mechanical	Dimensions(mm)	167x103x50		190x118x58		225x70x152		225x70x152		
Weight	0.9 Kgs.	1.2 Kgs.		2.1 Kgs.		2.3 Kgs.				

Customised Voltages & Currents can be Factory set to your Requirement

Contact: Durst for DC Power & Solar Products

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Durst Automatic Battery Chargers BCS-A Series Set & Forget

6, 12 & 24 Volt. 3 to 30 Amps

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Options

Range of DC plugs & Sockets suitable from 3 Amps to 350 Amps
Comprehensive range of Batteries
Lead sets made to order
Battery Clamps
Battery Fuel Meter

☎ N19332 Certified to Australian & International Standards CE

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