



# Durst BCS-SMARTChargers

**Advanced 3 Stage Charging**

**Bulk (I), Absorption (UO), Float & (U)**

**For Gel, Lead Acid, Maintenance Free, VRLA, AGM, Calcium & Flooded Lead Calcium Batteries.**

**15-80 Amps DC 12 Volts**

**15-40 Amps DC 24 Volts**

**Durst Now Offer the Fully Automatic Set & Forget SMARTCharging Solution for all *Automotive, Marine, Mobile Home, Electric Scooters, Golf Carts, Solar, Deep Cycle, UPS Standby, Industrial & Commercial Applications.***



Simply connect the battery to the SMARTCharger and let it auto-run the charging program. The user-friendly LED display lets you clearly understand the status of the charging mode. You can program the charging voltages & timer limit of the UO charging phase to suit battery types to get optimum performance for maximum battery life.

Ask about our comprehensive range of single & multi outputs chargers in 12 & 24 Volts, to suit batteries 70 to 1000 Amp Hour capacity.

## **SMART Charger Features:**

- Fully Automatic Fast & Safe
- High Efficiency & cheaper to run
- Input Voltage 240 Volts AC 50 Hz
- Overcharging Protection
- Short Circuit Protection
- Spike & Surge Suppression
- Isolated Output Terminals
- Programmable UO voltage to suit battery type
- Switchable 4H or 8H UO charging phase
- Three Stage Charging Indicator LEDS
- Mute button for quieter operation
- Optional temperature sensor (BCS-T20)
- Optional remote control panel (BCS-R10)
- Switch mode Design
- NASA Developed Technology
- Eliminates Sulphation
- User Friendly
- Compact & Light Weight
- Australian Electrical Standard & EMC Compliant
- Suitable Also a Power Supply



Specifications subject to changes due to R&D technical progress and availability.

## **Durst SMARTChargers Solve Battery Problems**

**One charger to suit all types of batteries: Gel-AGM (Maintenance Free) & Flooded (Wet) Lead**

## Calcium-Lead Acid-VRLA Deep cycle etc

How our Fully Automatic SMARTCharger works:

**SMARTCharger provides a fast, safe and accurate charge with a three stage charge sequence:**

**1st stage - Bulk:** The battery is charged at full rated output current of the charger until the battery reaches the absorption voltage. In this stage 60%-70% of the battery's capacity is replaced.

**2nd stage - Absorption:** The charging current falls steadily and the battery voltage stays at the absorption voltage level while the remaining 30%-40% of capacity is replaced.

**3rd stage - Float:** When the battery is fully charged. The charger voltage is decreased and is held constantly at the set float voltage. This float charging voltage will not damage the battery but replenishes any loss of internal battery discharge. The equalize float voltage selector switch allows you to choose the best voltage to obtain maximum battery capacity.

### Multi Channel Outputs on some models

The charger will select the correct current for each bank of batteries connected and automatically adjust to the battery voltages sensed.

## Technical Specifications of the DURST BCS 3 stage IU0U Automatic Chargers **Technical Specifications**

Durst Model Number:	BCS-1215B	BCS-1215
Batteries Connections:	One plus a 1 A	One
	output for Starter battery	
Input Voltage Range:		
115 VAC	98 - 132 VAC / 50 - 60 Hz.	
240 VAC	207 - 253 VAC / 50 - 60 Hz.	
Charging End Voltage:	14.4 V / 14.8 V	
Float Voltage:	13.8 V	
Max. Battery Capacity:	150 Ah	
U0 phase limitation:	4 Hours or 8 hours	
Max. Charging Current	15 A	
Half Power Mode	7.5 A	
DC Fuse Rating	1 X 20	
Fuse: 115 V AC	T 4a / 250 V	
Fuse: 240 V AC	T 2a / 250 V	
Operating Temperature	0 °C - 50 °C	
Dimensions (mm):	199 X 60 X 264	
Weight:	2.4 Kgs.	



Durst Model Number:	BCS-1225B	BCS-1225C	BCS-2415B	BCS-2415C
Battery Connections:	Two plus a 1 A output (C) for: Starter battery			
Input Voltage Range:				
115 V AC	98 - 132 V AC / 50 - 60 Hz			
240 V AC	207 - 253 V AC / 50 - 60 Hz			
Charging End Voltage:	14.4 V / 14.8 V	14.4 V / 14.8 V	28.8 V / 29.6 V	28.8 V / 29.6 V
Float Voltage:	13.8 V	13.8 V	27.6 V	27.6 V
Maximum:				
Max. Battery Capacity:	300 Ah	300 Ah	200 Ah	200 Ah
UO Phase limitation:	4 Hours or 8 Hours			
Max. Charging Current	45 A	45 A	25 A	25 A
Half Power Mode	22.5 A	22.5 A	12.5 A	12.5 A
DC Fuse Rating	2 X 30	2 X 30	1 X 30	1 X 30
Fuse: 115 V AC	T 12A / 250 V			
Fuse: 240 V AC	T 6.3 A / 250 V			
Operating Temperature	0 °C - 50 C°			
Dimensions (mm):	238 x 79 x 297			
Weight:	3.5 kg			



Durst Model Number:	BCS-1245B	BCS-1245C	BCS-2425B	BCS-2425C
Battery Connections:	Two (B)	Three (C)	Two (B)	Three (C)
Input Voltage Range:				
115 V AC	98 - 132 V AC / 50 - 60 Hz			
240 V AC	207 - 253 V AC / 50 - 60 Hz			
Charging End Voltage:	14.4 V / 14.8 V	14.4 V / 14.8 V	28.8 V / 29.6 V	28.8 V / 29.6 V
Float Voltage:	13.8 V	13.8 V	27.6 V	27.6 V
Max. Battery Capacity:	500 Ah	500 Ah	300 Ah	300 Ah
UO Phase limitation:	4 Hours or 8 Hours			
Max. Charging Current	45 A	45 A	25 A	25 A
Half Power Mode	22.5 A	22.5 A	12.5 A	12.5 A
DC Fuse Rating	2 X 30	2 X 30	1 X 30	1 X 30
Fuse: 115 V AC	T 12 A / 250 V			
Fuse: 240 V AC	T 6.3 A / 250 V			
Operating Temperature	0 °C - 50 C°			
Dimensions (mm):	229 x 107 x 330			
Weight:	5.05 kg			