



Designed for recharging high capacity and specialist battery banks. Ordinary automotive battery chargers are not capable of safely recharging deep cycle AGM batteries, batteries that may be sat at different ambient temperatures or those that may be under load while being charged. This line of smart battery chargers offers fully automatic, multi-stage battery charging, plus the ability to charge three separate battery banks. The ultimate set-and-forget charger, these products incorporate special charging algorithms designed to quickly and accurately recharge and maximize the life of AGM, Gel, Flooded or Lithium batteries. These chargers will also charge multiple battery chemistries simultaneously.

Heavy duty connections as standard – designed for use in heavy duty and commercial environments



High quality LCD display panels are standard on all AbSo chargers.



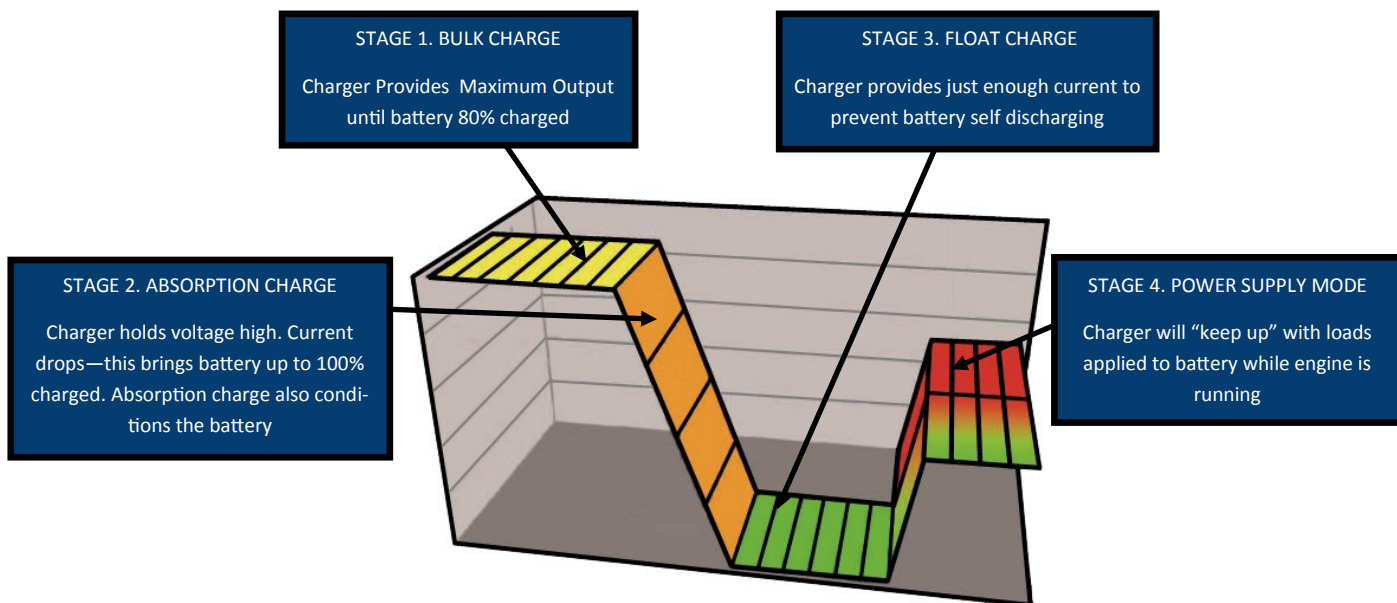
- **Designed for charging up to 3 independent battery banks – each varying in size, type or chemistry**
- **4 Stage Smart Charging – independently controlled and regulated for each battery bank**
- **Universal AC input – runs from 110 and 230V supplies**
- **Battery maintenance mode for when batteries are in deep storage**

A digital LCD display makes programming and understanding the charger simple. A remote panel is also available along with a PC



All units carry e-mark certification for legal use aboard vehicles

ABSO Chargers are fully adaptive 4 stage chargers. High quality internal electronics give one of the lowest AC ripple outputs in the industry. Their outputs can be set for normal, simultaneous charging of up to three battery banks or set for priority charging. Each output may be set for a different battery chemistry. Each output may also be current and voltage limited and set independently for temperature, making them perfect for charging either multiple batteries that differ greatly in size/



Feature Summary:

4 STAGE CHARGING	Rapidly and safely replenishes large capacity and specialist battery types to 100% charged
FULLY ADAPTIVCE CHARGING	No overcharging and ensures perfectly accurate charging of each connected battery bank
PRIORITISED CHARGING	Selectable between standard or prioritised charging for safe recharging of small and large battery banks
CHEMISTRY SELECT	Each independent output is selectable for specific battery types (lead/acid, Gel, AGM and Lithium-Ion)
TEMPERATURE SELECT	Each output can be selected for cold, warm or hot. Optional automatic sensing with temp sensor
UNIVERSAL INPUT	Operates on any voltage of 90-256V AC 47-62Hz - anywhere in the world or from poor quality AC supplies
BATTERY EQUALIZE MODE	Specially selectable mode for recovering and reconditioning 'dead' batteries
SELECTABLE OUTPUT	Select between 2 or 3 stage charging (2 is useful for standby applications) and constant power supply mode
QUIET MODE	Reduces fan speed to quiet running for night-time use when mounted near sleeping areas
IP32 RATED	Ingress Protection 32 Standards with internal PCB coatings for use in harsh environments
OPTIONAL REMOTE PANEL	Repeats the front mounted digital display at a remote location (up to 25')
ADVANCED PROTECTION	Reverse polarity, Overcharge, Over temperature, Output short circuit protected for maximum charger life
BATTERY PROTECTION FEA-	Reduces charge current to 50% when ambient temperature reaches 50 degrees C to protect batteries
FULL PFC	Very efficient. Can run from the following sized generators: 20A = 350w, 40A = 700w, 60A = 1050w
ERROR REPORTING	Reports error codes on front panel for quick and easy fault finding and rectification
HIGH QUALITY HARDWARE	Solid aluminium casing, heavy duty terminals and stainless parts for use in harsh environments
3 YEAR WARRANTY	Industry Leading warranty period

Part Number	02-3020	02-3040	02-3060
Rating	20A	40A	60A
Output Voltage Range:			
Bulk/Absorption	14.2 - 15.5V (Depending on settings & temperature)		
Float	14.4 - 13.8V (Depending on settings & temperature)		
Battery Recovery (Equalise) Voltage	16.0V (Activation of equalisation required)		
Charging Controls	4 Stage Charging (2 Stage Selectable)		
Number of Outputs	3	3	3
Output Control	Conventional 3 output or selectable prioritised charging		
Battery Type Programmes	Lead/Acid, Gel, AGM, Lithium-Ion & Custom Programme		
Ac Input Voltage	90-256V AC 47-63Hz		
Power Factor Correction	Full	Full	Full
AC Power Consumption (Watts)	350W	700W	1050W
Reverse Polarity Protection	Yes, warning displayed then unit shut-down		
Over Charger Protection	Yes, warning displayed then unit shut-down		
Cooling	Forced Air Ventilation		
Temperature Compensation	Manually set or automatic with optional sensor		
Operating Temperature	-20 ti +60 degrees C		
Dimensions (LxWxH) in mm	206mm x 285mm x 86mm	206mm x 285mm x 86mm	206mm x 353mm x 98mm
Weight Kg	2.3Kg	2.4Kg	3.5Kg
Standards	UL1236, UL1564 (marine supplement), CSA C22.2 107.2-01 , CE Marked for Low Voltage Directive 2006-95-EC, EN60335-2-29 (Battery Chargers), IEC60529:2001, IP32 Protection Level Certified, FCC part 15B Class B rated , EMC directive 2004-108-EC , Complies EN55014-1, EN55014-2, EN61000-3-2 & EN61000-3-3		

Part #	02-3032
Parameter	30A
Output Voltage Range	
Charge	13.5 - 15.5V
Float	13.0 - 13.8V
Battery Recovery (Equalise) Voltage	15.5V
Charging Control	5 Stages (Test/Bulk/Absorption/Float/Recharge)
DC Output Bank	One
Battery Type Preprogrammes	Gel, AGM, Flooded, Lithium, Program
AC Input Voltage	< 10 uA
Power Factor Correction	> 90%
DC Input Range (Battery/Alternator)	10.5 - 32Vdc
Dc Input Nominal Operation	12.8V for 12V charging System 25.6V for 24V Charging System
Engine Start Control: ON	DC Input from Battery/Alternator
Engine Start Control: OFF	DC input from PV input (if availble)
DC Input Range (PV Input)	10 - 45 Vdc
DC Nominal Operation	17.5Vdc for 12v panels connected in parallel 35.0Vdc for dual 12V PV panel connected in series
MPPT Tracking Efficiency	> 98% (Target)
Reverse Battery	Yes (Shutdown), Auto Reset
DC Output Short Circuit	Yes (Shutdown), Auto Reset
Over Charge	Yes (Shutdown), Auto Reset
Cooling	Yes (Shutdown), Auto Reset
Display	LED Display with back lighting
Digital Display	Voltage, Current, Status and Error Code