



# MERLIN BATTERY CHARGERS

Merlin Smart Battery Chargers offers fully automatic, multi-stage battery charging, with the ability to charge three separate battery banks. The ultimate set-and-forget charger, these products in-corporate special charging algorithms designed to quickly and accurately recharge and maximize the life of AGM, GeI, Flooded or Lithium batteries. These chargers will also charge multiple battery chemistries simultaneously.

Merlin Smart Battery Chargers are fully adaptive 4 stage chargers. High quality internal electronics give one of the lowest AC ripple outputs in the industry.

### Each output can be:

- set for normal, simultaneous, or priority charging,
- set for a different battery chemistry (lead/acid, Gel, AGM, or lithium-ion),
- current and voltage limited,
- set independently for temperature, making them perfect for charging either multiple batteries that differ greatly in size or chemistry, or for Lithium Ion Cells.

## - Fully adaptive charging

that ensures perfectly accurate charging of each connected battery bank and no overcharging.

## - Universal input

that operates on any voltage of 90-256 VAC 47-62Hz, anywhere in the World, or from poor quality AC supplies.

# - Battery equalise mode

is a specially selectable mode for recovering and reconditioning 'dead' batteries.

## - Quiet mode

reduces the fan speed to quiet running for night-time use when mounted near sleeping areas.

## - Advanced protection

from reverse polarity, overcharge, overheating, and output short circuit.

### - 4 stage charging

that rapidly and safely replenishes large capacity and specialist battery types to 100% charged.

















PART# RATING	02-3020 20A, 12V	02-3032 30A, 24V	02-3040 40A, 12V	02-3060 60A, 12V	02-3100 100A, 12V
DC OUTPUT					
BULK/ ABSORPTION	14.2 - 15.5V	28.4 - 31.0V	14.2 - 15.5V	14.2 - 15.5V	14.2 - 15.5V
FLOAT	13.4 - 13.8V	26.8 - 27.6V	13.4 - 13.8V	13.4 - 13.8V	13.4 - 13.8V
BATTERY RECOVERY (EQUALISE)	16.0V	32.0V	16.0V	16.0V	16.0V
CHARGING CONTROLS	4 STAGE (2 SELECTABLE)				
NUMBER OF OUTPUTS	3	3	3	3	3
BATTERY TYPE PROGRAMMES	LEAD/ACID, GEL,				
	AGM, LITHIUM,				
	CUSTOM PROGRAM				
AC INPUT					
/OLTAGE (NOMINAL)	120, 230, 240VAC				
PERATION RANGE	90 - 265VAC				
FREQUENCY RANGE	47 - 63HZ				
AC POWER CONSUMPTION	350W	1050W	700W	1050W	1800W
POWER FACTOR CORRECTION	YES	YES	YES	YES	YES
PROTECTION					
REVERSE POLARITY	YES	YES	YES	YES	YES
COOLING	FORCED VENTILATION				
OUTPUT SHORT CIRCUIT	YES	YES	YES	YES	YES
NGRESS PROTECTION	IP32	IP32	IP32	IP32	IP32
DISPLAY					
NDICATOR	LCD WITH BACK LIGHTING				
DIGITAL DISPLAY (LED)	VOLTAGE, CURRENT,				
	STATUS, ERROR CODE				
ENCLOSURE					
WEIGHT (KG)	2.4	4.0	2.6	4.0	6.4
DIMENSIONS (MM)	295 X 206 X 86	356 X 206 X 97	295 X 206 X 86	356 X 206 X 86	236 X 425 X 102.7