

# MERLIN EXTREME DUTY BATTERY CHARGERS

Designed specifically for the most challenging applications, Merlin's Extreme Duty Battery Chargers are robustly designed using the highest quality components for maximum efficiency, ultimate reliability, and best battery charging performance.

Merlin Extreme Duty Battery Chargers are the perfect choice where lives and livelihoods depend on batteries being charged and maintained in top condition.

High quality output electronics provide a very 'clean' charging voltage (DC ripple from low quality electronics shorten battery life)- combined with up to 8 stage smart charging, Merlin Extreme Duty Battery Chargers rapidly replenish battery capacity, keep up with immediate DC loads, and maintain batteries when in stand-by for long periods of time. Universal AC input and Power Factor Correction allow operation anywhere in the World and even from poor quality AC supplies.

Standard programmes are built in for most battery types-custom ones can be created using a PC interface allowing custom programmes for exotic battery chemistries.

- **Advanced protection** against battery failure, high temperature, overload, short circuit, low input voltage, and reverse polarity.
- **Robust industrial design** designed for continuous high output duty.
- **Universal AC input** with full power factor correction.
- **Easy to access connection bay** for installing AC, DC, and control wiring.
- **Multistage intelligent charging programs** plus custom charging facility.
- **Variable speed fan** for low noise operation.
- **Industry leading warranty** of 2 years, upgradeable to 5 years.



PART#	30-3010	30-3016	30-3018	30-3020
RATING	90A, 12V	50A, 24V	80A, 24V	40A, 48V
<b>AC INPUT</b>				
VOLTAGE (NOMINAL)	100-260VAC / 47-63HZ	100-260VAC / 47-63HZ	100-260VAC / 47-63HZ	180-260Vac / 47-63Hz
FULL LOAD POWER CONSUMPTION	1550VA	1700VA	2750VA	2750VA
AC INPUT CURRENT	13.5A/6.8A	15A/7. SA	-/12A	-/12A
<b>DC OUTPUT</b>				
BULK/ ABSORPTION	14.4VDC	28.8VDC	57.6VDC	57.6Vdc
FLOAT	13.5VDC	27.0VDC	54.0VDC	54.0Vdc
BATTERY RECOVERY (EQUALISE)	15.8VDC	31.6VDC	63.2VDC	63.2Vdc
CHARGING CONTROLS	IUOUOP, INTELLIGENT 4 STAGE	IUOUOP, INTELLIGENT 4 STAGE	IUOUOP, INTELLIGENT 4 STAGE	IUOUOP, INTELLIGENT 4 STAGE
NUMBER OF OUTPUTS	3 (INTERNALLY ISOLATED)	3 (INTERNALLY ISOLATED)	3 (INTERNALLY ISOLATED)	3 (INTERNALLY ISOLATED)
BATTERY TYPE PROGRAMMES	FLOODED, GEL, AGM, LITHIUM	FLOODED, GEL, AGM, LITHIUM	FLOODED, GEL, AGM, LITHIUM	FLOODED, GEL, AGM, LITHIUM
<b>TEMPERATURE</b>				
OPERATING TEMP. RANGE	-10°C ... +55°C	-10°C ... +55°C	-10°C ... +55°C	-10°C ... +55°C
STORAGE TEMP. RANGE	-20°C ... +70°C	-20°C ... +70°C	-20°C ... +70°C	-20°C ... +70°C
COOLING	VARIABLE SPEED FAN	VARIABLE SPEED FAN	VARIABLE SPEED FAN	VARIABLE SPEED FAN
<b>PROTECTION</b>				
LOW AC VOLTAGE	YES	YES	YES	YES
OUTPUT SHORT CIRCUIT	YES	YES	YES	YES
HIGH TEMPERATURE	YES	YES	YES	YES
BATTERY OVERCHARGING	YES	YES	YES	YES
REVERSE POLARITY	YES	YES	YES	YES
<b>INDICATIONS</b>				
POWER ON	YES	YES	YES	YES
OUTPUT CURRENT BAR	YES	YES	YES	YES
STATE OF CHARGE BAR	YES	YES	YES	YES
ERROR	YES	YES	YES	YES
<b>ENCLOSURE</b>				
COMMUNICATION PORT	TBSLINK	TBSLINK	TBSLINK	TBSLINK
DC OUTPUT CONNECTIONS	4 X M8 BOLTS	4 X M8 BOLTS	4 X M8 BOLTS	4 X M8 BOLTS
AC INPUT CONNECTIONS	SCREW TERMINALS	SCREW TERMINALS	SCREW TERMINALS	SCREW TERMINALS
ENCLOSURE BODY SIZE (MM)	370 X 271 X 132	370 X 271 X 132	370 X 271 X 132	370 X 271 X 132
TOTAL WEIGHT (KG)	6.2	6.2	6.2	6.2
STANDARDS	EMC: ENN55016-2-1(/A1), EN55016-2-3(/A1), EN6100-4-2(3/4/5/6). SAFETY: EN60335-1, EN60335-2-29			