BATTERY CHARGERS AND EXPANSION MODULES.

ATS-V-5100 / ATS-V-5120

5 AMP 12 VOLT/5 AMP 24 VOLT COMPACT BATTERY CHARGERS

5 AMP 24 VOLT

5 AMP 12 VOLT

The 5 Amp Battery Chargers have been designed to be pemanently connected to batteries, keeping them charged to their maximum capacity.

The chargers can be either mounted via DIN rail or to the chassis, using the fixing holes that are built into the case. The chargers stylish design includes an LED indicator on the front that shows when the charger is in a normal or overload condition.

To improve reliability the chargers do not include any moving parts. They will also continue to operate during cranking and running. All chargers can accept multiple AC voltage connections.

ADVANCED FEATURES

Multi-Stage Intelligent Charging
- Constant, maximum current during charge recovery phase
- Constant voltage
- Chargers automatically return to float mode when charging is complete

Low Output Ripple
- Makes the chargers ideal for all battery types

Full Protection
- Reverse polarity protection, short circuit protection and current limiting

Boost Mode (5 AMP charger only)
- Boosts and equalises cell charge improving battery performance and life
- Simple boost connection using on-board terminals

Power Save Mode
- Once the battery is fully charged, the chargers switch to Eco-Power to save energy

STANDARD FEATURES
- Suitable for a wide range of battery types
- No moving parts
- Switched mode design
- Charge fail output
- Minimum 80% efficiency throughout full operating range

WORLD Automation

SPECIFICATION

DC OUTPUT
12V DC, 24V DC or 30V DC
24V DC available in 5 Amp only

AC INPUT

5 Amp 12 Volt:
85V 305V min/max voltage range
110V 277V nominal voltage range

5 Amp 24 Volt:
85V 305V min/max voltage range
110V 277V nominal voltage range

OUTPUT CURRENT

5 Amp (12V) at 13.7V DC

5 Amp (24V) at 27.4V DC

REGULATION
Line <0.01% Vo
Load 1% Vo

OPERATING TEMPERATURE RANGE
-30°C to + 55°C

CASE
Polycarbonate

DIMENSIONS
2 Amp 12V
108.03mm x 101.10mm x 48.6mm
4.25 x 3.98 x 1.91
5 Amp; 2 Amp 30V:
136.48mm x 140.41mm x 63.40mm
5.37 x 5.53 x 2.5

WEIGHT
2 Amp 12V
0.16Kg
5 Amp; 2 Amp 30V:
0.5Kg

PROTECTIONS
Short Circuit, Over Voltage,
Over Current, Reverse Polarity

ENVIRONMENTAL TESTING STANDARDS

ELECTRICAL SAFETY
BS EN 60950
Safety of Information Technology Equipment, including Electrical Business Equipment

ELECTRO MAGNETIC COMPATIBILITY
BS EN 61000-6-2
EMC Generic Immunity Standard for the Industrial Environment
BS EN 61000-6-4
EMC Generic Emission Standard for the Industrial Environment

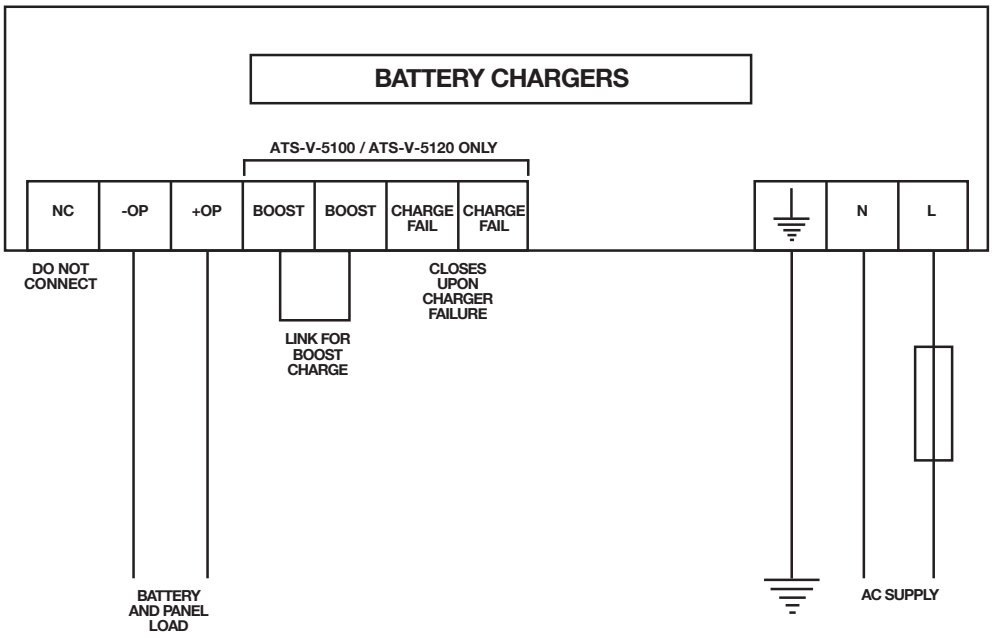
TEMPERATURE (OPERATING)
BS EN 60068
Test Ab to +70°C 60068-2-2 Hot
Test Ab to -30°C 60068-2-1 Cold

VIBRATION
BS EN 60068-2-6
Ten sweeps in each of three major axes
5Hz to 8Hz @ +/-7.5mm, 8Hz to 500Hz @ 2gn

HUMIDITY
BS 2011 part 2.1 60068-2-30
Test Cb Ob Cyclic
93% RH @ 40°C for 48 hours

SHOCK
BS EN 60068-2-27
Three shocks in each of three major axes
15gn in 11mS

TYPICAL BATTERY CHARGER CONNECTION DIAGRAM



CHARGER TYPE	RECOMMENDED AC FUSE
ATS-V-5100 12V 5A	2.5A ANTI-SURGE
ATS-V-5120 24V 5A	3.0A ANTI-SURGE

CHARGER TYPE	P.V.P.
Battery Charger 12V 10 Amp	$
Battery Charger 24V 10 Amp	$
Battery Charger 12V 5 Amp	$
Battery Charger 24V 5 Amp	$
Battery Charger 12V 2 Amp	$

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