APULJACK
ELECTRONICS LTD
DESIGN AND REPAIR SPECIALISTS

AE276-L Ultra
25A Lithium Battery Charger



Product Code: CHR-APU-007-NE - Version 1.1

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1. Scope

These instructions relate only to the Apuljack Electronics item - Model: AE276-L, Part number: CHR-APU-007 Version 1.1

2. General Description

The AE276-L is a brand new lithium-ready version of our popular AE276 ULTRA units. The new lithium variety has been configured to provide the required charge voltage for lithium batteries.

NOTE: The AE276-L has an extra white wire – See Section 6 for details

3. Safety & Warnings

Please observe the warnings on the charger label along with the items below.

- Under heavy loads the charger case may become hot.
- The internals of the charger contain lethal voltages – DO NOT TOUCH.
- Users should keep flames and sparks away from a charging battery due to possible presence of explosive gases.
- Users should provide adequate ventilation during charging.
- Users should disconnect the supply before making or breaking the connections to the battery or charger

4. Charger Profile

- 25A Output current
- 14.6V Output voltage

5. Mains Plug Retention

The AE276-L features a unique Cable Retention Loop for the mains cable. Once the right angled mains connector is fitted, insert the supplied cable tie through the loop in the case and tighten round the mains connector at right angles to the case.



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6. Inputs/Outputs

Mains input connector type: IEC C14

The charger is on when the switch is in the 'I' position – the switch will illuminate when the mains is present and the switch is on. Ensure the unit is switched on before fitting into a Power Distribution Unit.

- Charging output: connector type: Fastin-Faston 2 way Male – Red & Black wires.
- 'Mains On' output: connector type: 4.8mm female blade – White wire

The 'Mains on' output is used on some control panels to display a plug or electrical symbol to indicate when the vehicle is connected to the mains. If you do not have this feature/connection in your vehicle then the white wire/connector can be left unconnected. The operation of the charger is not affected if the 'Mains on' connector is not used.

7. Approvals

Approved to:-

- Safety EN60335-2-29:1996
- Emissions EN61000-3-2/3 & EN55014-1
- Immunity EN55014-2

8. Technical Specification

Input Voltage:	230V AC +/-15%, 196-264V AC
Input Frequency:	47Hz to 63Hz
Efficiency:	87%
Charge Output Current:	25A max
'Mains On' Output (White Wire)	12V with mains applied, 0V otherwise
Protection circuits:	Over-current Short-circuit protection Over-voltage protection Thermal Protection Battery Reverse Polarity
Operating Temperature:	-30°C to 55°C at full load
Cooling fan:	SMART: Temperature Controlled
Protection:	4A internal fuse (Type T)
Dimensions:	125 x 230 x 67 mm
Weight:	1.37Kg

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