

# Coolspool Fast Chargers

26V AND 28V DC CHARGERS

Coolspool 17 and Coolspool 29 portable aircraft start units are supplied with an internal 1.9A emergency charger designed to recharge the unit over an extended time period.

Frequent users of the Coolspool 17 and Coolspool 29 units who require expedited charge times should consider the optional Coolspool fast charger.

The Coolspool fast charging system is designed to re-charge your Coolspool unit quickly and safely whilst also optimising the batteries for maximum longevity.

The Coolspool fast charger is available in four dedicated versions to charge the Coolspool 17 or Coolspool 29 ground power units at either 26V DC or 28V DC.

These microprocessor controlled fast chargers include a 3-stage step charge control with a low current start up and battery recovery feature.

Each charger is also fitted with reverse polarity, short circuit protection and temperature controlled compensation, and has a wide input range for worldwide operation.



Model shown: 26V Coolspool Fast Charger



## 26V and 28V Fast Charger connections

**For Coolspool 17 26V:**  
26V Fast Charger with SB50A connector  
**For Coolspool 17 28V:**  
28V Fast Charger with SB50A connector



**For Coolspool 29 26V:**  
26V Fast Charger with Merit connector  
**For Coolspool 29 28V:**  
28V Fast Charger with Merit connector



**IMPORTANT:** Please ensure the correct charger model is selected for your Coolspool product (26V or 28V type). Incorrect voltage selection can cause severe damage to the Coolspool batteries.

# Coolspool Fast Chargers

26V and 28V DC

## Specifications

Input	90-264V AC/47-63Hz/single phase
Output power	294W
Charge timer (step 2)	4 hours
Safety timer	72 hours
Maximum charge current	26V charger: 9.5A 28V charger: 9.0A
Ripple	< 100 mV p-p
Efficiency (at 100% load)	> 85%
Switch Frequency	67 kHz (approx.)
Operating Temperature	-25°C to +40°C (77°F to 104°F) Storage -25°C to +85°C (77°F to 185°F)
Protections	<ul style="list-style-type: none"><li>Short circuit</li><li>Reversed polarity</li><li>Over-temperature</li><li>Safety timer</li></ul>
Safety	EN 60335-2-29
Insulation class	Class D I
Insulation Voltage	3750V AC / 5300V DC
EMC	EN 61000-3-2 EN 61000-6-3 EN 61000-6-1 EN 55014-1-2
IP rating	IP20
Dimensions (L x W x H)	H 63.5mm (2.5in), L 245mm (9.6in), W 186mm (7.3in)
Weight	2.36KG (5.2lbs)

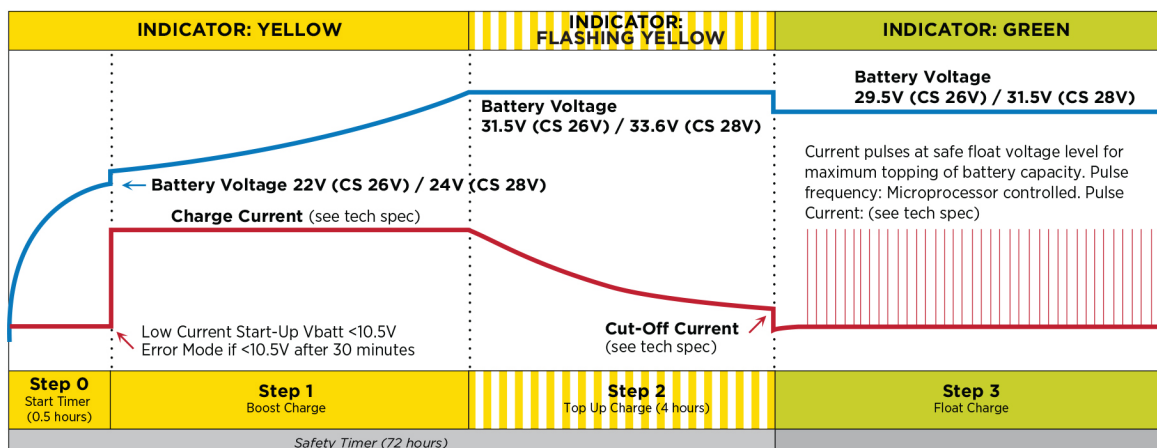
## Features

- 3-step charging with microprocessor control
- Low current start-up of deeply discharged batteries (step 0)
- Boost charge (step 1)
- Top-up charge (step 2)
- Pulsing float charge (step 3)
- Wide input range for worldwide operation
- Temperature compensation
- Battery not connected indicator (flashing green)
- Protected against reversed polarity and short circuit proof
- Unaffected by fluctuations from input voltage
- Smart temperature control: silent temp controlled fan with fan speed regulation
- 3-pin IEC-60320 input connector

### CHARGE CONTROL - LED INDICATION

	Step 0 < 30 min (Yellow)	Step 0 > 30 min (Red=error)	Step 1 (Yellow)	Step 2 (Flash Yellow)	Step 3 (Green)	Float charge
26V	1.3A ± 0.5A (batt. volt < 22V)	< 0.3A	9.5A ± 0.5A 22-31.2V	31.2V ± 0.1V (until I charge < 1.3A or > 4hr)	29.5V ± 0.2V (until I charge > 9.5A)	29.5V ± 0.2V Pulsing current at safe float volt.
28V	1.3A ± 0.5A (batt. volt < 24V)	< 0.3A	9.0A ± 0.5A 24-33.6V	33.6V ± 0.1V (until I charge < 1.3A or > 4hr)	31.5V ± 0.2V (until I charge > 9.0A)	31.5V ± 0.2V Pulsing current at safe float volt.

### Charging characteristics and LED indication



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