

GPU Fast Chargers

24V DC CHARGING SYSTEM



GPU 1700 and GPU 2400 portable aircraft start units are supplied with an internal 2.3A emergency charger designed to recharge the unit over an extended time period.

Frequent users of the GPU 1700 and GPU 2400 aircraft start units who require expedited charge times should consider the optional GPU fast charger.

The GPU Fast Charger is designed to re-charge your GPU 1700 / GPU 2400 units quickly and safely whilst also optimising the batteries for maximum longevity.

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GPU Fast Charger connection

For GPU 1700 and GPU 2400:
24V Fast Charger with Merit connector



float charge

quick charge



Charge mode display LEDs

GPU Fast Charger 24V DC

Specifications

Input	198-264V AC/47-63Hz/single phase		
Output power	294W		
Charge timer (step 2)	4 hours \pm 30 mins		
Safety timer	72 hours		
Maximum charge current	10A		
Ripple	< 100 mV p-p		
Efficiency (at 100% load)	> 83%		
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">Short circuitReversed polarityOver-temperatureSafety timer		
Safety	EN 60335-2-29		
Insulation class	Class I		
Insulation Voltage	Primary ground	1500V AC	
	Primary secondary	4000V AC	
	Secondary ground	500V AC	
EMC	EN 61000-6-3 EN 61000-6-1 EN 55014		
IP rating	IP20		
Dimensions (L x W x H)	H 58mm (2.8in), L 210mm (8.3in), W 148mm (75.8in)		
Weight	1.55kg (3.4lbs)		

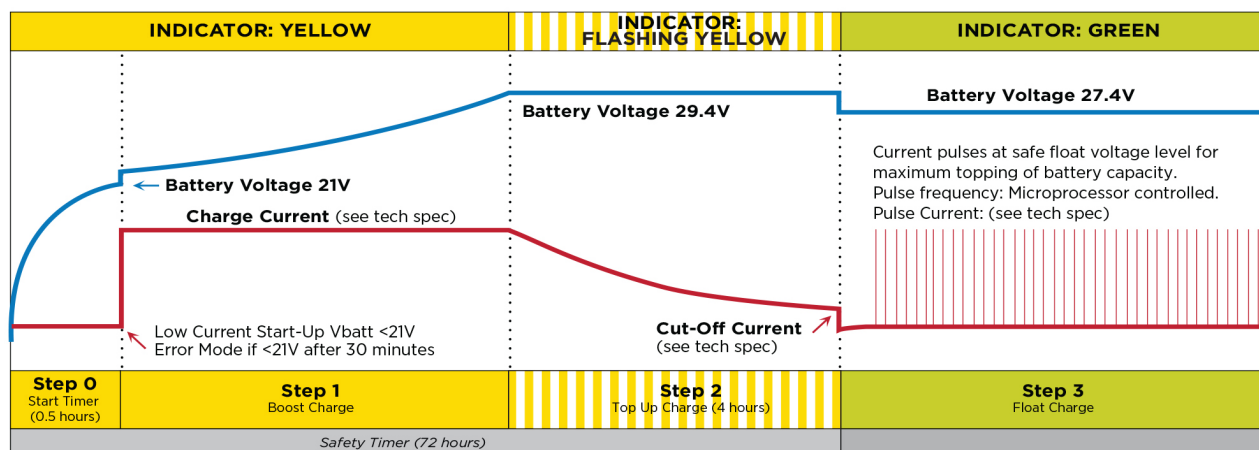
Features

- 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)
- Temperature compensation
- Protected against reversed polarity and short circuit proof
- Unaffected by fluctuations from input voltage
- 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
24V	1.3A \pm 0.5A (batt. volt < 21V)	< 0.3A	10A \pm 0.5A 21-29.4V	29.4V \pm 0.1V (until I charge < 1.3A or > 4hr)	27.4V \pm 0.2V (until I charge > 10A)	27.4V \pm 0.2V

Charging characteristics and LED indication



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