

# InteliCharger 500



## AUTOMATIC BATTERY CHARGER



### Description

The new InteliCharger 500 is the latest addition to the ComAp range of advanced microprocessor controlled battery chargers. The new InteliCharger 500 is an advanced, automatic battery charger delivering a high power output of 20 A. InteliCharger 500 is a cost effective unit provides 100% continuous operation, is fully automatic and even cools itself naturally. The device comes packed with an outstanding list of features, all of which are fully detailed on our website. Suitable for many applications, the InteliCharger 500 is the ideal solution for remote and stand-by power applications as well as DC breaker tripping systems, industrial control systems, alarm systems, robust PSU and electric vehicles.

### Features

- ▶ High power and efficiency
- ▶ High reliability
- ▶ Suits all battery types
- ▶ Fully automatic operation
- ▶ 24 V nominal outputs
- ▶ Protection against:
  - short circuit
  - overload
  - over voltage
  - over temperature
  - reverse battery
- ▶ Worldwide AC input range
- ▶ Low output ripple
- ▶ Fully enclosed construction
- ▶ Naturally cooled – fan less design
- ▶ Optional alarms (& bi-colour led's):
  - charge fail
  - AC fail
  - DC under volts
  - DC over volts
  - +Ve earth fault
  - -Ve earth fault
  - common fault (form C contact set)
- ▶ Optional intelligent multi-stage charge profile with auto equalise
- ▶ Optional boost charging system

### Applications:

- ▶ Standby & prime power generators
- ▶ Engine driven pumps & compressors
- ▶ Switch gear tripping
- ▶ Automotive
- ▶ Alarm systems
- ▶ Navigational aids
- ▶ Marine
- ▶ Industrial control systems
- ▶ Electric vehicles



ComAp is a member of AMPS (The Association of Manufacturers of Power generating Systems).



ComAp products meet the highest standards, with every stage of production undertaken in accordance with the ISO certification obtained in 1998.

## Specification

| Input Specification:         |   |
|------------------------------|---|
| Voltage Range, $V_{IN}$ :    | 90–132 V or 180 264 V AC (Switch Select)  |
| Frequency:                   | 47–63 Hz  |
| Input Current:               | 8 A @ 115 V 3.2 A @ 230 V   |
| Inrush Current:              | 27 A @ 115 V<br>45 A @ 230 V (Cold Start)   |
| Leakage Current:             | <3.5 mA @ 240 V AC  |
| Output Specification:        |   |
| Voltage / Current:           | 24 V / 20 A nominal<br><i>Voltages calibrated to specific battery type</i>                        |
| Output Current:              | 20 A works preset   |
| Ripple & Noise:              | 120 mV pk-pk  |
| Line Regulation:             | ±0.5 %  |
| Load Regulation:             | ±1 %  |
| Efficiency:                  | 89% Typical   |
| Overload Protection:         | Constant Current Limit  |
| Over Voltage Protection:     | 125 %–150 % Shutdown. Recycle power to reset.   |
| Over Temperature Protection: | 95–105 °C (On heatsink) Shutdown. Self resetting.   |
| Battery Types:               | Sealed AGM (Sealed Lead Acid) / Gel / Ni-Cad<br><i>Please contact us for other battery types.</i> |
| Setup, Rise, Hold Up:        | 1200 ms, 40 ms, 23 ms (at full load)  |

| Isolation:                   |   |
|------------------------------|---|
| Withstand Voltage:           | Input – Output 1.5 kV AC<br>Input – Earth 1.5 kV AC<br>Output – Earth 500 V DC  |
| Isolation Resistance:        | 500 V DC / 100 M Ohms (Output-Earth)  |
| Environmental Specification: |   |
| Working Temperature:         | -20 °C to +50 °C  |
| Working Humidity:            | 20–90% non-condensing RH  |
| Storage Temperature:         | -40 °C to +80 °C  |
| Storage Humidity:            | 10%–95% RH  |
| Unpacked Weight:             | 3.2 kg  |
| Protection:                  |   |
| AC Input:                    | Internal fast blow fuse. Upstream input fuse should be fitted.  |
| DC Output:                   | ATO blade type fuse 25 A 32 V DC  |
| Short Circuit / Overload:    | Constant current limiting with automatic recovery. Over Temperature Unit will shut-down if internal temperatures are exceeded. Automatically switches back on once the unit has cooled. |
| Over Voltage:                | Output voltage shut-down. Recycle AC input power to reset.  |
| Reversed Battery Protection: | Internal diode with external 'automotive type' Protection blade fuse.   |

## Termination

**AC Input** – Rising clamp 4.0 mm<sup>2</sup> cable.

**DC Output** – Rising clamp 4.0 mm<sup>2</sup> cable.

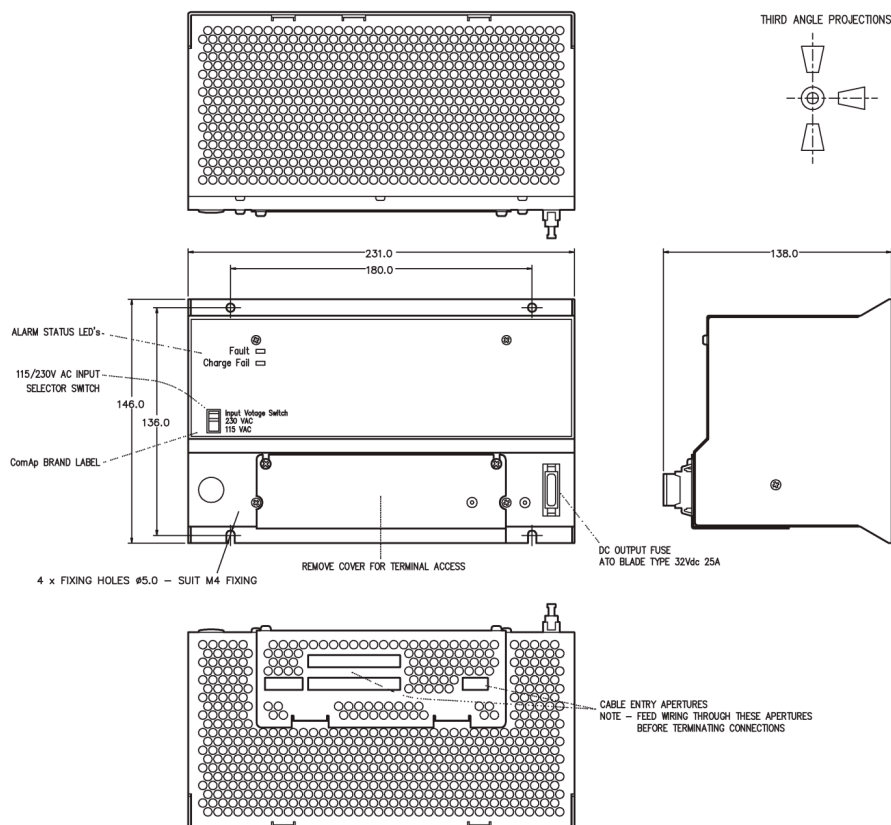
**Optional Alarms** – Rising clamp 2.5 mm<sup>2</sup> cable.

## Finish

RAL5013 blue / RAL9005 black fine texture.

## Order code

| Product          | Order code |
|------------------|------------|
| IntelCharger 500 | ICHG-500   |



MANUFACTURER:

**ComAp a.s.**

Czech Republic

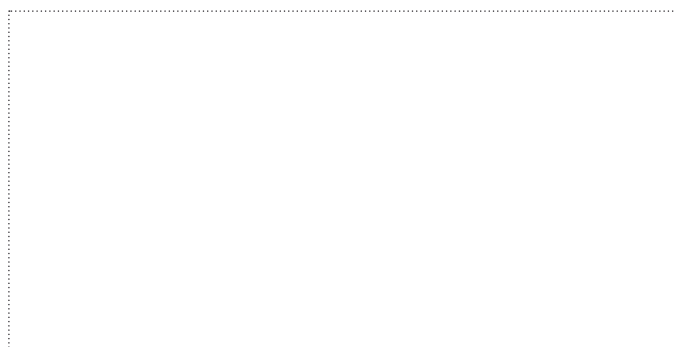
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