

# ***I2420 & I2440*** **24V INDUSTRIAL** **BATTERY CHARGERS** ***EFFICIENT. FLEXIBLE. SAFE.***



- *For all types of 24V batteries, including lithium (LiFePO4)*
- *Selectable charging programmes*
- *Drive-off protection and other safety features*
- *Lightweight and compact*
- *High operating efficiency*
- *Completely sealed unit*
- *Safe and easy to use*
- *IP64 rating*
- *2 year warranty*

# **CTEK ISERIES**

## **BATTERY CHARGING FOR EVEN THE MOST DEMANDING ENVIRONMENT**

*Here at CTEK we know all about the tough and demanding environment that industrial vehicles operate in, and understand the impact that these harsh conditions can have on the vehicle itself and its components.*

Part of the CTEK ISeries, the I2420 and I2440 units are efficient, flexible and safe 24V battery chargers. Designed to meet the individual needs of batteries used in industrial applications, these lightweight and compact chargers will maximize battery performance. With a unique combination of selectable charging programmes, advanced technology and SMART safety features, the ISeries of chargers from CTEK are the perfect 24V solution to industrial battery charging.

## **WHY CHARGE?**

*It cannot be disputed, the battery is the heart of any industrial vehicle. Having a 24V battery in optimum condition will ensure vehicle reliability and drastically reduce the risk of vehicle down-time – providing peace of mind and maximizing organizational productivity.*

And for many of these vehicles, weight, space and the environment are all important considerations - batteries are becoming smaller and the requirement for more regular charging is increasing. By not regularly charging the battery up to 100% capacity, the battery will be cycled more often than necessary, increasing stratification and drastically reducing capacity and battery life.

And let's not forget that vehicle usage and behavior, battery chemistry and ultimately, how you charge, is critical in ensuring that battery performance is maximized.

The CTEK ISeries has been developed to meet the specific needs of the industrial sector with efficiency, safety and flexibility in mind.

# KEY FEATURES

## **INNOVATIVE TECHNOLOGY**

Unique 'Resonant Converter' transformer technology delivers high levels of current, with 94% efficiency, to achieve optimum charge levels in the shortest possible time.

This unique approach to battery charging also enables the I2420 & I2440 units to work in extreme temperatures without de-rating (reducing) charge levels.

## **DURABLE**

The I2420 and I2440 chargers have been developed for use in even the harshest, environment, with Welded casing to create a completely sealed unit. Built with black anodised aluminium and IP64 rated (water and dust proof), the I2420 and I2440 chargers have a robust design.

## **SELECTABLE CHARGING PROGRAMMES**

15 different charging programmes (for different battery types, sizes and vehicle behaviours) are available to ensure the most appropriate charge.

Both units are suitable for all types of 24V battery including normal wet/flooded, Calcium (Ca/Ca) and Gel, AGM, EFB and also Lithium LiFePO4.

Able to charge batteries from as low as 0.5V, the I2420 & I2440 units automatically revive deeply discharged batteries by using a specially developed charging algorithm.

## **SAFE**

Advanced electronics make the I2420 and I2440 completely safe for permanent installation.

Drive-off protection means that you can't start vehicle if it is connected to the charger. Reverse polarity and over voltage protection, along with a built-in temperature sensor make it completely safe for the battery, the vehicle and the user too.

## **PUTS YOU IN THE PICTURE**

A series of LED lights on the main body of the charger show the state of charge of the battery, so you know when it's time to charge. A remote LED wire is available as an accessory if the charger is mounted somewhere that is difficult to see or to access.

Both units log the last 200 individual charging cycles, including incomplete cycles, that can be downloaded by CTEK for analysis, if required.

## **CONNECT AND FORGET**

The I2420 and I2440 Chargers can be left connected to a power supply for unlimited periods of time, without the risk of damaging the battery, ensuring that the battery is not over or under charged.



# TECHNICAL SPECIFICATION

## TECHNICAL SPECIFICATION I2420 & I2420

Main	230V +10% / -15%
Power factor	≈1
Conversion efficiency	Up to 94%
Standby power consumption	Max 0.5W
Protection class	I
Output voltage	Up to 32V (nominal: 24V battery)
Output current	20A (I2420) 40A (I2440)
Output ripple	Max 100mVpp
Softstart	When charging

- Automatic reviving of extremely deep discharged batteries
- Charging batteries from 0.5V (i.e. 42mVpc for a 24V battery)

## ACCESSORIES

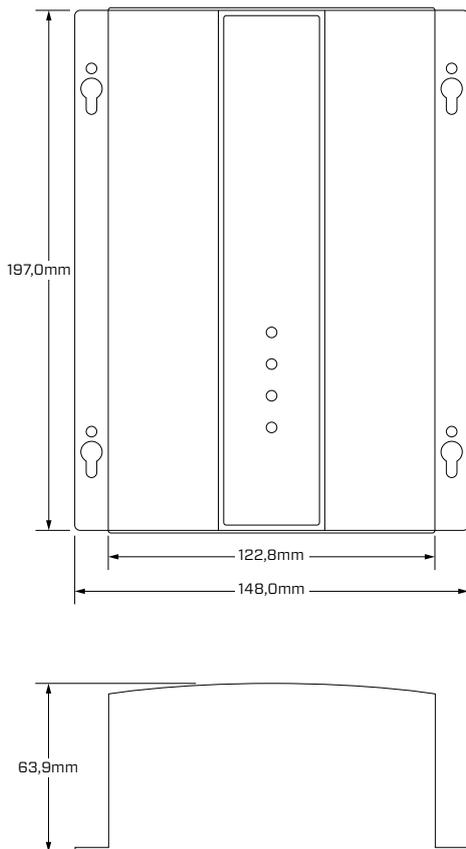
- Extern Multi collar LED indicating charging status as intern LED (length 2,5m)
- Extern Multi collar LED indicating charging status as intern LED (length 5m)



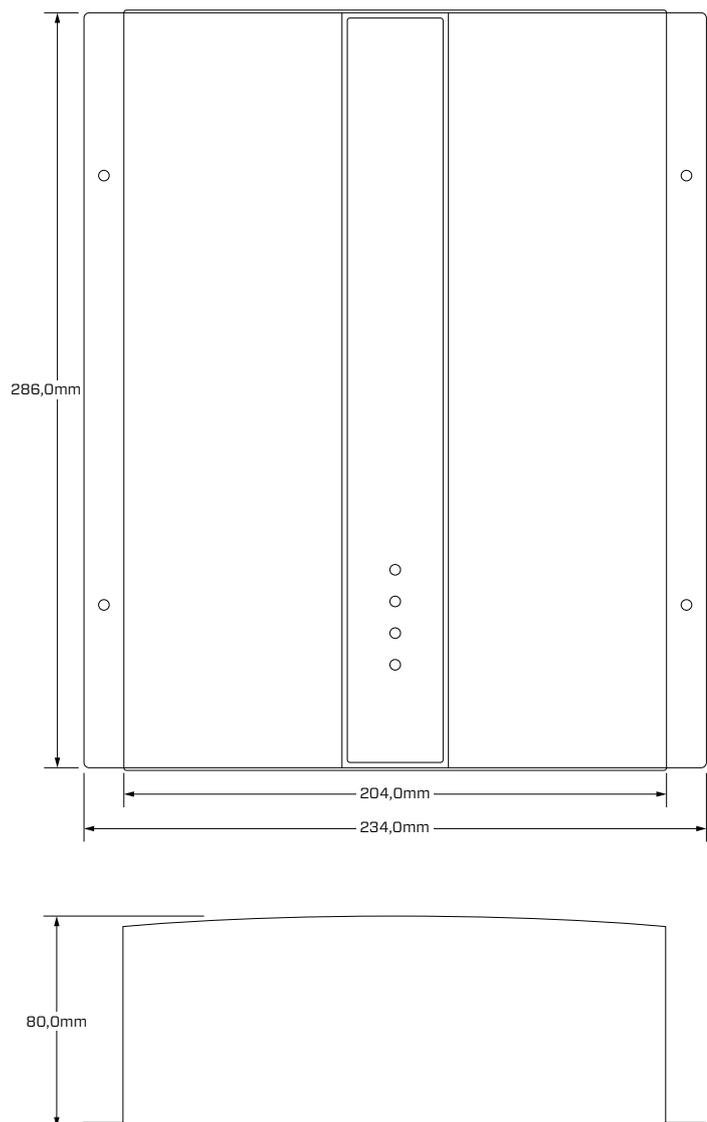
# PRODUCT DIMENSIONS

Cabinet: Black anodized aluminium  
IP64 water and dust tight  
Dimensions: I2420 64x123(148)x197 mm  
Dimensions: I2440 85x235x281 mm  
Weight (excl. cables): I2420 1.4 kg  
Weight (excl. cables): I2440 3.0 kg

**I2420**



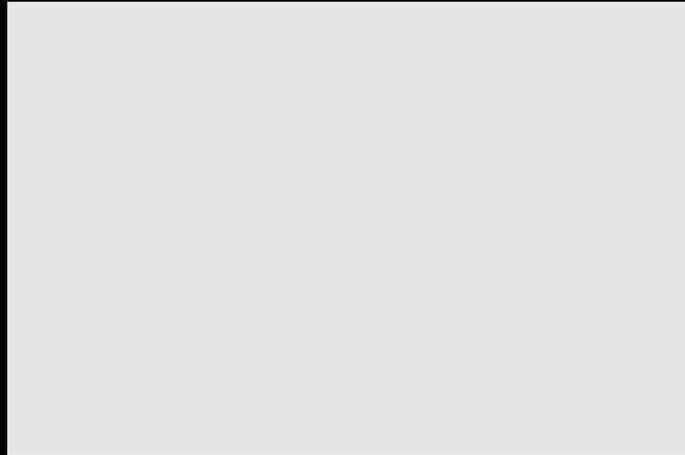
**I2440**



## **CTEK - MAXIMIZING BATTERY PERFORMANCE**

We're proud to be the world's leading experts in battery care. It's been our focus for two decades and this dedication has resulted in many new innovations along the way. Our patented 'smart' charging technology revolutionised consumer battery charging and our latest technology, evident in the new I Series, now revolutionises industrial battery charging.

This latest generation of industrial chargers is designed to be highly efficient for faster charging, enhanced productivity and reduced operating costs. They're easy and safe to use, meeting or exceeding the required safety standards in all regions and featuring built-in protection for the user, the battery and the vehicle's electronic systems. All of our Industrial products come with a 2 year warranty and our customer care concept that includes training and technical support.



**CTEK** | **MAXIMIZING  
BATTERY  
PERFORMANCE**

*CTEK SWEDEN AB  
ROSTUGNSVÄGEN 3, SE-776 70 VIKMANSHYTTAN, SWEDEN  
PHONE: + 46 225 351 80 | INFO@CTEK.COM  
[WWW.CTEK.COM](http://WWW.CTEK.COM)*