



INDUSTRIAL 40A CHARGER FOR A VARIETY OF BATTERY TYPES

The I2440 is an industrial charger designed for all standard lead acid, AGM and GEL batteries from as low as 0.5V.

FLEXIBLE CHARGING CURVES

The I2440 can be customized with different charging curves depending on battery type and application. It also records parameters from the last 200 charging cycles for compliance. I2440 has Drive Off protection and is robust with IP64 aluminum casing. The I2440 also has intelligent cable loss compensation for even faster charging and uses advanced technology for its high frequency switch mode. With conversion efficiency up to 94%, the I2440 means low CO₂ emissions and lower power usage in general.

- Customized charging curves available, default WET batteries
- IP64 rated
- Suitable for all standard lead acid, AGM and GEL batteries from as low as 0.5V
- Dedicated Lithium* algorithms available
- Drive Off protection
- Logging and saving 200 charge cycles
- Multi step, fully automatic charging cycle
- Charge current: 40A
- Easy to read LED indicators
- Automatic reconditioning for deeply discharged batteries
- 2-year warranty

*) 12V lithium batteries (LiFePO₄, Li-Fe, Li-iron, LFP)

TOUGH AND ROBUST

The I2420 and I2440 industrial chargers have been developed for use in even the harshest, hottest environments. Constructed of black anodized aluminum, these robust chargers are completely sealed units fitted with vibration absorbers to further protect the unit. IP64 rated (water and dust proof) and supplied with a two-year warranty the I-Series range of chargers are built for long life.

TRANSFORMING PERFORMANCE

Unique 'Resonant Converter' transformer technology delivers high levels of current, with 94% efficiency, for optimum charge levels in the shortest possible time. This unique approach to charging enables the I2420 and I2440 chargers to work in extreme temperatures of up to 40°C without de-rating (reducing) charge levels, and at even higher temperatures with reduced output current.

FLEXIBILITY

Both chargers have room for many different charging programs for different battery types, sizes and vehicle behaviours, they are suitable for all types of 24V battery including normal wet/flooded, Calcium (Ca/Ca) and Gel, AGM, EFB and also Lithium (LiFePO₄). And if the battery needs to be swapped out for a different battery type, you don't need to swap out the charger - the charger can be re-programmed. Both the I2420 and I2440 charges batteries from as low as 0.5V and automatically revives deeply discharged batteries.

USER, VEHICLE AND BATTERY SAFETY

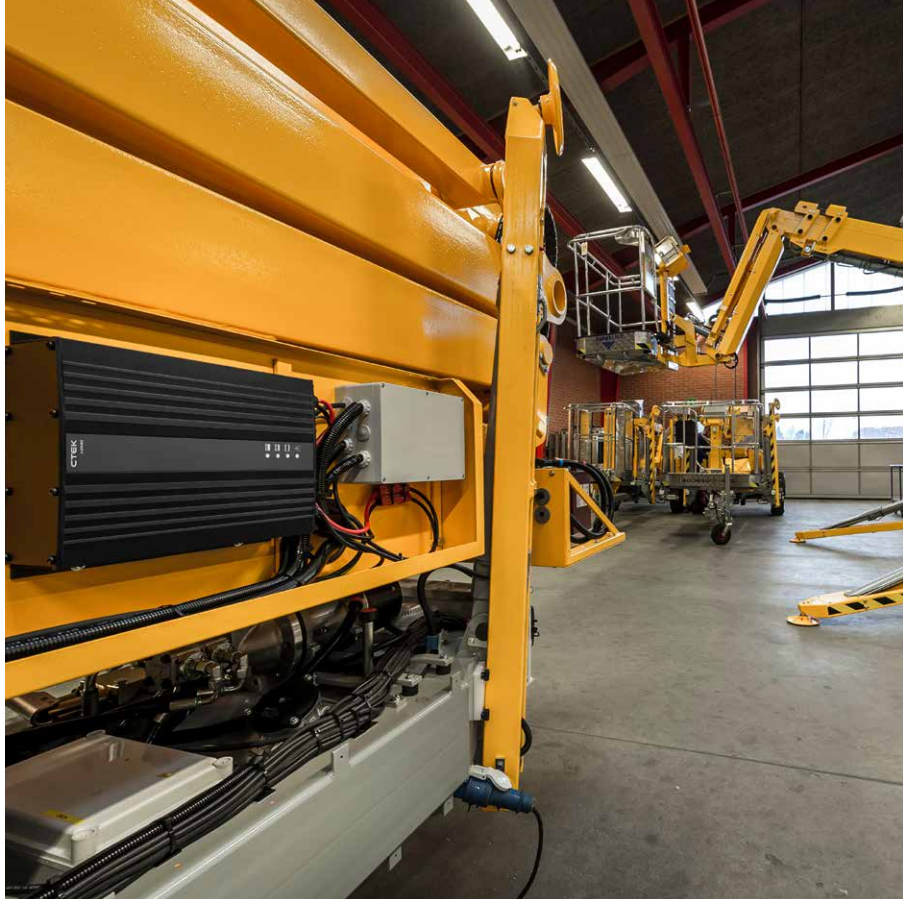
Advanced electronics mean that I2420 and I2440 chargers are safe for permanent installation. Drive-off protection ensures that the vehicle won't start if it is connected to the charger whilst reverse polarity and over voltage protection protect the battery. There is a temperature sensor available to ensure that the battery won't overheat and receives optimal charging over the temperature range. The I-Series range of chargers is completely safe for the battery, the vehicle and the user.

CLEAR, SIMPLE DISPLAY AND ANALYSIS

A series of LED indicators show the state of charge of the battery, so you know when it's time to charge, and if the charger is mounted somewhere difficult to access or see, a remote 2.5M LED wire is available as an accessory. The I2420 and I2440 chargers logs the last 200 charge cycles, including incomplete cycles, which can be downloaded with CTEK Service tool for analysis.

DOES THE THINKING FOR YOU

With the I-Series, you can simply connect and forget. Both the I2420 and I2440 can be left connected for unlimited periods of time with no risk of damaging the battery.



INPUT	220-240 VAC, 50-60 Hz, 7 A max
OUTPUT	28.8 V, 40 A Max
START VOLTAGE	0.5 V
CONVERSION EFFICIENCY	Up to 94 %
BACK CURRENT DRAIN*	Corresponding to less than 7 Ah/month
RIPPLE**	Less than 4 %
AMBIENT OPERATING TEMPERATURE	-20 °C to +50 °C
AMBIENT STORAGE TEMPERATURE	-40 °C to +70 °C
BATTERY TYPES	24 V: WET, can be customized for AGM, GEL, LiFePO ₄
BATTERY CAPACITY	80-1100 Ah
INSULATION CLASS	IP64
WARRANTY	2 years
NET WEIGHT (UNIT WITH CABLES)	3.0 kg
GROSS WEIGHT (UNIT IN BOX)	4.87 kg
DIMENSIONS (LXWXH)	294x236x80 mm

*) Back current drain is the current that drains the battery if the charger is not connected to the mains. CTEK chargers have a very low back current.

***) The quality of the charging voltage and charging current is very important. A high current ripple heats up the battery which has an aging effect on the positive electrode. High voltage ripple could harm other equipment that is connected to the battery. CTEK battery chargers produce very clean voltage and current with low ripple.

GUARANTEED QUALITY WITH CTEK

CTEK customer support is available to answer any questions related to charging and CTEK chargers. Safety, simplicity and flexibility characterizes all products and solutions developed and sold by CTEK. CTEK supply chargers to more than 70 countries throughout the world. CTEK is also a reliable OEM supplier to many of the world's most prestigious car and motorcycle manufacturers. For more information visit WWW.CTEK.COM