

Compact, lightweight and aesthetic, CRISTEC CPS2 chargers bring you all the safety and convenience advanced technology can offer.

■ Electrical specifications

Voltage, frequency

- > Universal input voltage: 85 to 265 VAC single phase (Suitable for use with AC generators)
- > Input frequency: 47 to 63 Hz
- > Nominal output voltage (depending on model): 12, 24 or 48 VDC +/- 1%
- > Output voltage can be adjusted using the internal potentiometer.

Charge

- > Built-in Power Factor Correction (PFC)
- > Efficiency over 80%
- > Selectable charge type (boost, absorption or floating) by internal switch:
- > Controlled current and time boost (max 4 hours)
- > Integrated diode charge distributor for all three outputs
- > Suitable for use with Lead Acid, Gel and various battery types. Selection via internal switch

Protection

- > Protected against short circuits
- > Fuse-protected against input polarity reversal (not 48 VCC models)
- > Fuse-protected against output polarity reversal (not model 24V/75A)
- > Protected against AC over voltage by internal varistor (not covered by the guarantee)
- > Thermal overheat protection

Outputs, environment

- > Thermostatically controlled ultra-low noise electric fan (apart from naturally ventilated models 24V/08A or 12V/16A)
- > LED indicators for battery charger status - Mains on, boost, absorption or floating
- > Dedicated engine battery (+ BAT D) output
- > Operating temperature: -10°C to +60°C
- > Storage temperature: -20°C to +70°C
- > External power limitation switch on models 12V/80A, 24V/20, 60 and 75A

■ Features

- > May be used to provide stabilised power supply
- > Optimised heat exchange (SMI technology) for models 12V/40, 60 and 80A, 24V/20, 30, 50, 60 and 75A and 48V/15 and 30A

■ Standards and Guarantee

- > Compliant with current **CE** standards, including generic standards EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 and EN 60950
- > RoHS compliant
- > Guarantee: 3 years

■ Options

- > External temperature sensor via 4 pin RJ9 4P4C type connector
- > Digital remote display via 8 pin RJ45 type connector
- > "Night function" option shuts down cooling fan and reduces charge output on 12V/25, 40 & 60A and 24V/12, 20 & 30A and 48V/15A models
- > Output terminals available for - LED charger status - Boost On/Off - Charger On/Off
- > Analog ammeter and voltmeter, cables for analog display units.
- > IEC version available on request.

■ Mechanical characteristics

- > Corrosion resistant metal case (IP21)
- > Epoxy finish in RAL 9011 matt black, RAL 1018 yellow and RAL 7047 grey, salt atmosphere resistant
- > Tropicalisation of electronic panel using waterproof varnish
- > Plastic glands to secure cables from vibration
- > Exterior fixing points
- > Connection of battery cables on threaded rod and input cables on terminals to be screwed

■ Case dimensions in mm (not including cable glands)

Case	Height	Width	Depth
CF6B	179	269	106
CF7B	209	288	115
CF8B	260	350	135

Voltage/current	Number of outputs	Item ref. no	Type of case	Weight	Typical input current at 230VAC
12V/16A	3	CPS2/12-16	CF6B	2,5 Kg	1,4A
24V/08A	3	CPS2/24-08	CF6B	2,5 Kg	1,3A
12V/25A	3	CPS2/12-25	CF6B	2,5 Kg	2,0A
24V/12A	3	CPS2/24-12	CF6B	2,5 Kg	1,9A
12V/40A	3	CPS2/12-40	CF7B	6 Kg	3,2A
24V/20A	3	CPS2/24-20	CF7B	6 Kg	3,1A
12V/60A	3	CPS2/12-60	CF7B	6 Kg	4,6A
24V/30A	3	CPS2/24-30	CF7B	6 Kg	4,4A
48V/15A	3	CPS2/48-15	CF7B	6 Kg	4,3A
12V/80A	3	CPS2/12-80	CF8B	7,5 Kg	6,0A
24V/50A	3	CPS2/24-50	CF8B	7,5 Kg	7,5A
24V/60A	3	CPS2/24-60	CF8B	7,5 Kg	9A
48V/30A	3	CPS2/48-30	CF8B	7,5 Kg	9A
24V/75A	3	CPS2/24-75	CF8B	7,5 Kg	11,5A

Specifications may change without notice. Please contact us.

VERSION C



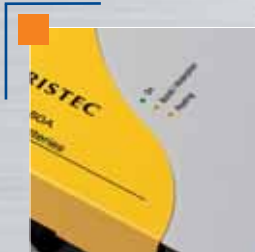
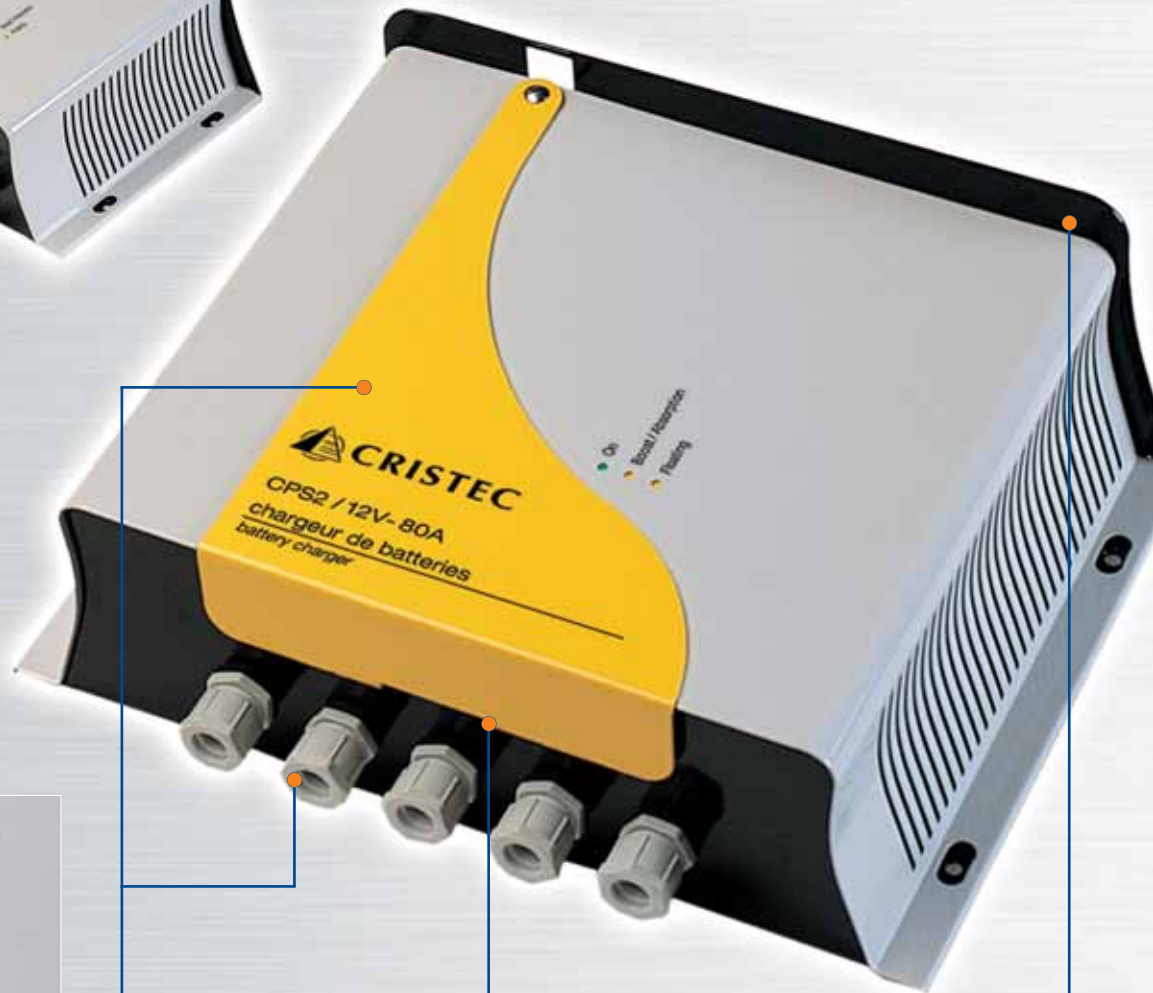
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CPS2 Battery Chargers



> Made-to-measure with complete

- CRISTEC has been designing, developing and marketing energy conversion electrical equipment for over 20 years.
- Innovation and expertise in HF technology enable CRISTEC to offer products specifically adapted to the demands of numerous applications: water sports, customised vehicles, renewable energy, industry.



> Ergonomics

Opening of the casing and access to the charger is performed using a unique screw and a detachable clasp. Cable glands provide protection against water ingress and vibration.

> Interfaces

Optional connection for external battery temperature sensor enables optimisation of battery charging and/or a digital display unit to check battery state.

> Reinforced protection

Anti-drip covering.
Electronic board coated with waterproof and tropicalising varnish.

charging independence

Having already sold more than 40,000 HF chargers throughout the world, CRISTEC has now confirmed its expertise in the field of battery charging with the CPS2 range: meeting constantly evolving needs and ever stricter standards.

> Universal powering

CPS2 chargers accept all alternating input voltages between 85 and 265 VAC and all frequencies from 47 to 63 Hz.

> Power Factor and Efficiency

Power Factor Correction (PFC) considerably reduces consumption and optimises the AC supply input waveform. A new PCB layout combined with precise component choice have resulted in improved efficiency.

> Selective Charge

One of the three outputs is specifically designed for charging engine start batteries, in order to prevent unnecessary overcharge, particularly during Boost phase.

> Type of Charge

Choose either 3 Stage charge with Boost phase or Float charge for use when "wintering" or using as a stabilised power supply.

> BOOST

Timed function which activates according to battery state.

> Battery Characteristics

Selection of battery technology by internal switches, e.g. Lead Acid or Gel, to ensure charging suited to manufacturer requirements.

> Standards

CPS2 chargers fulfil the most demanding criteria. They comply with current **CE** and RoHS standards.

> CPS2 Chargers... Efficient

Light, ultra-compact and silent, CPS2 chargers provide specific battery charging in minimum time thanks to their 3 charging modes: Boost, Absorption and Floating.

> CPS2 Chargers... Universal

Entirely automatic, universal input of 85 to 265VAC (ideal for use with European or US voltages) and built-in diode charge distributors, CPS2 chargers can be connected permanently to batteries in total safety. No need to disconnect during engine start.

> CPS2 Chargers... Reliable

Thanks to a particularly efficient filtering network, CPS2 chargers deliver perfectly stable output current without interfering with other onboard equipment. The CPS2 range is protected against polarity reversal and guaranteed for 3 years.

