Flatpack2 Wallbox

Power Supply System
24V/3,6kW, 48V/6kW or 110V/4kW

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Compact wall mounted power supply system

The Flatpack2 wallbox have been designed for industrial and telecom applications with power requirements in the range of 1-6kW. With its compact design and simple installation, it makes it a powerful wall mounted DC power supply package

Applications

Telecom - Wireless, fibre and broadband
Today's communications demand state of the art, cost efficient and compact DC power systems. The Flatpack2 delivers a cost- efficient power solution that can be easily adapted for applications where there is limited space.

Industrial – Power utilities, process industry, marine and offshore
Increasing demand for reliable DC power with or without battery backup, makes Flatpack2 Wallbox the ideal choice in the small to medium power range

Product Description
The basic power core has 2 rectifier positions, a Smartpack2 controller and a bulk DC output feed, but optional DC distribution
The power core is prepared for any Flatpack2 HE rectifier module and the system output can be either of the following: (based on module choice)

- 24V/1100 – 3600W
- 60V/1100 – 4000W
- 48V/1100 – 6000W
- 110V/1100 – 4000W
- 125V/1100 – 4000W

The system is monitored and controlled by the Smartpack2 controller, with simple menu guided operation via a high resolution colour display

Simple removable front cover gives good access for installation and connections

Key Features

Compact design
The small system dimensions are ideal locations with limited space

Bulk-feed or integrated distribution
The system comes as default with bulk output DC feed, but can be configured with integrated load and battery distribution to meet your power solution requirements.

Digital controllers
The controller is digitalized, enabling excellent monitoring and regulation characteristics, included Ethernet for remote monitoring.

Heat management
The box is optimized both for Micropack with its natural convection cooling and for Flatpack2 with its horizontal right to left fan cooling

Unique install ability
Simple removable front cover gives good access for installation and connections. Combined with true plug-and-play modules, this gives short cost effective time-to-install.

Global approvals
Flatpack2 Wallbox is CE marked for worldwide installation.

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Additional Technical Specifications

AC Input

Voltage	1 x single phase feed (85VAC – 300VAC)
AC Connector	Screw terminals, 1,5-16 mm2
Maximum Current	See Flatpack2 datasheets
Input Protection	Internal fuses in rectifier module

DC Output (dependent of module choice)

FP2 24/1800 HE	24VDC/1,1-4kW (max 150A @ 24V)
FP2 48-60/2000 HE	48-60VDC/1,1-4kW (max 83A @ 48V)
FP2 48/3000HE	48VDC/3-6kW (max 63-125A @ 48V)
FP2 110/2000 HE	110VDC/1,1-4kW (max 36A @ 110V)

Monitoring

Monitoring Unit	Smartpack2
Local Operation	WEB interface via standard browser using WebPower
Remote Operation	WebPower (WEB Interface, SNMP protocol and email)
Alarm Relays	6 x Potential free change over contacts (NO, NC, C)
Visual Indications	o Green LED – System ON o Yellow LED – Minor alarm(s) o Red LED – Major alarm(s) o Graphical TFT high contrast, high resolution colour display
Inputs	o 6 x digital or analogue inputs o 3 x Temperature measurement
Current Measurements	o Battery current o Rectifier current
Alarms	o Load fuse alarm o Battery fuse alarm o LVD operated o Low output voltage alarms (2 individual alarm levels) o High output voltage alarms (2 individual alarm levels) o Battery capacity o Temperature alarm o and more

See Smartpack2 datasheet for further details (242100.50X.DS3)

Connections

Load connection	Screw terminal blocks, up to 32 mm2
Alarm connections	Cage clamp terminal blocks, up to 1.5 mm2
Input AC	Screw terminals 1.5-16mm2. (Directly on input on off switch)

Other Specifications

Isolation	o 3.0 KVAC – input and output o 1.5 KVAC – input earth o 0.5 KVDC – output earth
Operating temp.	-40 to +75°C (-40 to +167°F)
Storage temp.	-40 to +80°C (-40 to +176°F)
Dimensions	452 x 200x450mm (W x D x H)
Weight (excl. rectifiers)	Approx. 5kg

Applicable Standards

Electrical safety	IEC 60950-1
EMC	o ETSI EN 300 386 V.1.3.2 (telecommunication network) o EN 61000-6-1 (immunity, light industry) o EN 61000-6-2 (immunity, industry) o EN 61000-6-3 (emission, light industry) o EN 61000-6-4 (emission, industry)
Environment	ETSI EN 300 019 ETSI EN 300 132-2

Ordering Information

Part no.	Description
CTO30210.000	FP2 24-110V WB

CTO30210.DS3 – v0A