



Flatpack2 Wallbox

Power Supply System 24V/40-168 A, 48V/15-83 A, 110V/10-34 A

Compact wall mounted power supply system

The Flatpack2 Wallbox is built around our Flatpack2 rectifier and designed for applications as switchgear, telecom, emergency lightning, alarm systems etc.

With its compact design and simple installation, makes it a powerful wall mounted DC power supply package

Applications

The rectifier's wide DC output range makes it suitable for parallel operation with all types of stationary batteries, as lead acid, or nickel cadmium types.

Flatpack2 rectifier is using the latest design of high frequency switch mode technology, and can also be used without batteries. Because of its extremely high efficiency at low load it can be used for all type of applications as.

- Switchgear
- Telecommunications
- Alarm Systems
- Emergency lightning
- Dieselstart

Product Description

The basic power core has 2 rectifier positions, a Smartpack2 controller and a bulk DC output feed, with possibility for optional DC distribution.

The Smartpack2 controller comes with a high resolution TFT screen and controls all typical parameters as high, low battery voltage, rectifier fault, earth fault, tripped fuse etc.

The power core is prepared for any Flatpack2 HE rectifier module and depending on the rectifier choice the system output can be either of the following:

- 24V/40-168 A
- 48V/15-83 A
- 110V/10-34 A

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

Smartpack2 controller with a 3,2" TFT color display for excellent monitoring and regulation characteristics, included Ethernet and Web interface for remote monitoring.



Frontpanel Smartpack2

Unique install ability

Simple removable front cover gives good access for installation and connections, and cost effective time-to-install.

Global approvals

Flatpack2 Wallbox is CE marked for worldwide installation.



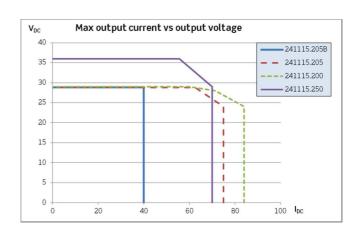
24V Wallbox

Applications

The 24 V rectifiers it suitable for parallel operation with all types of stationary batteries, as lead acid, or nickel cadmium types, and can also operate without batteries

Because of its extremely high efficiency at low load it can be used for typical applications as.

- Alarm systems
- Dieselstart float application
- PABX systems
- Emergency lightning
- Industrial control systems



Available 24V rectifiers for the Flatpack2 Wallbox

		Voltage		Maximum current		Output
Part number	Description	range	Efficiency	1 Module	2 Modules	protection
241115.205B	Flatpack2 24V/40A HE	21.7 – 28.8 V	> 95% (30-65% load)	40 A	80 A	Fuse
241115.205	Flatpack2 24V/1800W HE	21.7 – 28.8 V	> 95% (30-65% load)	75 A	150A	Fuse
241115.200	Flatpack2 24V/2000W	21 – 29 V	> 89% (25-100% load)	84 A	168 A	Blocking diode
241115.250	Flatpack2 24V/2000W WOR	21.5 - 36 V	> 91% (25-85% load)	70 A	140 A	Fuse

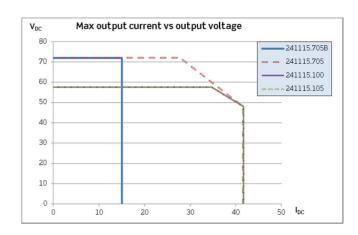
48V Wallbox

Applications

The 48 V rectifiers it suitable for parallel operation with all types of stationary batteries, as lead acid, or nickel cadmium types, and can also operate without batteries

Because of its extremely high efficiency at low load it can be used for typical applications as.

- Telecommunication systems
- PABX systems
- Emergency lightning
- Industrial control systems



Available 48V rectifiers for the Flatpack2 Wallbox

		Voltage		Maximum current		Output
Part number	Description	range	Efficiency	1 Module	2 Modules	protection
241115.705B	Flatpack2 48-60V/15A HE	39.9 – 72 V	> 95.5% (50-100% load)	15 A	30 A	Fuse
241115.705	Flatpack2 48-60V/2000W HE	39.9 – 72 V	> 95.5% (25-75% load)	41.6 A	83.2A	Fuse
241115.100	Flatpack2 48V/2000W	43.2 – 57.6 V	> 91.5% (45-95% load)	41.6 A	83.2A	Blocking diode
241115.105	Flatpack2 48V/2000W HE	43.5 – 57.6 V	> 96% (30-70% load)	41.6 A	83.2A	Fuse

^{* 3}kW 48V rectifiers are also supported, but this will require rebuild of the AC input to separate to individual feed for each rectifier.



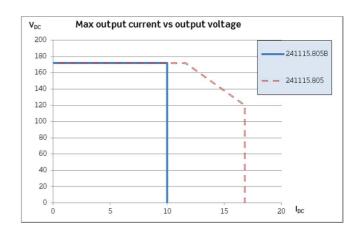
110V Wallbox

Applications

The 110 V rectifiers it suitable for parallel operation with all types of stationary batteries, as lead acid, or nickel cadmium types, and can also operate without batteries

Because of its extremely high efficiency at low load it can be used for typical applications as.

- Low & High Voltage switchgear
- Transformer & SUB Stations
- Power Generation & Distribution



Available 110V rectifiers for the Flatpack2 Wallbox

		Voltage		Maximum	Output	
Part number	Description	range	Efficiency	1 Module	2 Modules	protection
241115.805B	Flatpack2 110-125V/10A HE	89.2-171.6 V	> 94% (45-100% load)	10 A	20 A	Oring diode
241115.805	Flatpack2 110V/2000W HE	89.2-171.6 V	> 94% (30-70% load)	16.8 A	33.6A	Oring diode

Ordering i	Ordering information - order 1 Wallbox and 1 or 2 rectifiers													
Part numbers														
System like North Line of the Lands of the L														
	40 A	21.7 – 28.8 V	1	1										
	70 A	21.7 – 28.8 V	1		1									
	75 A	21.5 - 36 V	1				1							
24 Vdc	80 A	21.7 - 28.8 V	1	2										
24 Vuc	84 A	21 - 29 V	1			1								
	140 A	21.7 - 28.8 V	1		2									
	150 A	21.5 - 36 V	1				2							
	168 A	21 - 29 V	1			2								
	15 A	39.9 – 72 V	1					1						
	30 A	39.9 – 72 V	1					2						
	41.6 A	39.9 – 72 V	1						1					
48 Vdc	41.6 A	43.2 – 57.6 V	1							1				
40 Vuc	41.6 A	43.5 – 57.6 V	1								1			
	83.2 A	39.9 - 72 V	1						2					
	83.2 A	43.2 – 57.6 V	1							2				
	83.2 A	43.5 – 57.6 V	1								2			
	41.6 A	89.2-171.6 V	1									1		
110 \/da	16.8 A	89.2-171.6 V	1										1	
110 Vdc	20 A	89.2-171.6 V	1									2		
	33.6 A	89.2-171.6 V	1										2	

Flatpack2 Wallbox

Additional Technical Specifications

Input	
Voltage	1 x single phase feed $(85V_{AC} - 300V_{AC})$ *
Recommended input breaker	32A
Input Protection	Internal fuses in rectifier module On/off MCB

DC Output	
Voltage	24V _{DC} , 48V _{DC} , 60V _{DC} & 110V _{DC}
Output current	See previous page or Flatpack2 rectifiers datasheets

Connections	
Load connection	Screw terminal blocks, up to 35 mm2 (M8 Cable lug)
Alarm connections	Cage clamp terminal blocks, up to 1.5 mm2
Input AC	Directly on input MCB, up to 25mm2

Other Specifications					
Isolation	 3.0 kV_{AC} - input and output 1.5 kV_{AC} - input earth 0.5 kV_{DC} - output earth * 				
Operating temp.	-40 to +60°C (-40 to +140°F) The maximum output power is reduced for ambient temperatures above +35 to +50°C depending on rectifier model. See rectifier datasheet for details.				
Storage temp.	-40 to +80°C (-40 to +176°F)				
Dimensions	452 x 200x450mm (W x D x H)				
Weight	Approx. 5kg (excluding rectifiers)				

^{* 1.5}kV_{DC} for Wallbox with 110V Flatpack2 rectifiers

Monitoring				
Monitoring Unit	Smartpack2			
Local Operation	Display and keys, 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) [Max 75V/2A/60W]			
Visual Indications	 Green LED – System ON Yellow LED – Minor alarm(s) Red LED – Major alarm(s) Graphical TFT high contrast, high resolution colour display 			
Inputs	6 x digital or analogue inputs3 x Temperature measurement			
Current Measurements	Battery current (optional external battery shunt required) Rectifier current Calculated load current (optional external battery shunt required)			
Alarms	 Low output voltage alarms (2 individual alarm levels) High output voltage alarms (2 individual alarm levels) Earth fault alarm 			
	o Temperature alarm			
	 Mains outage alarm 			
	Battery remaining capacity alarm			
	Battery low quality alarm			
	Load/battery fuse tripped alarmand much more			
Con Smartnack? datashoot for	o and much more further details (242100.50X,DS3)			

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

Part no. Description CT030210.000 FP2 24-110V WB

Specifications are subject to change without notice

o ETSI EN 300 132-2

CTO30210.DS3 - v0B

