SFP544 Safety Power

Input: Single-phase 115 - 230 - 277 Vac
Output: 12 - 24 - 48 Vdc
Charge type: all range "CBI" DC UPS ADELSystem
Battery Temperature compensation
Deep Discharge protections
Charging curve IUoUO, constant voltage and Constant current
Life Test Battery: detect internal battery resistance
Four charging levels: Recovery, Bulk, Absorption, Boost, Trickle and
Protected against short circuit and inverted polarity
Signal output (contact free) for discharged or damaged battery, Mains / Back-UP
Connectivity: ModBus RTU; Ethernet
Wall Mount
Protection degree IP30; Space saving

Feature

Power supply unit conform to European standard EN54.4. the device provide power for the main panel, in field device and stand by Battery. The maximum total current depending on the type of CBI's chosen at least 20 A that can be distributed between load and battery. The CBI device can supply the load and in the main time recharge and detect the batteries.

When main fail, automatically the CBI'S switch the battery to the load without any output interruption. In any situation the battery it is tested charged and temperature charging compensated, by external temperature sensor. By DPY351 or DPY353 it is possible monitoring all kind of state and alarm that can be transmitted by Dry contact or by Ethernet. The alarm Type are: Battery Fault, Main o Back Up, Generic Fault. By ADELView system, it is possible monitoring and configuring the device in other area.

Device configuration (In Voltage 115,230,277 Vac)

Output		Device	Accessory	Connectivity
12	3A	CBI123A	DPY353	
12	5A	CBI126A	DPY353	
12	10A	CBI1210A	DPY353	
12	15A	CBI2801224A	DPY351 - DPY353	ModBus RTU
12	35A	CBI1235A	DPY351 - DPY353	ModBus RTU
24	2.5A	CBI6024A	DPY351 - DPY353	Ethernet
24	3A	CBI243A	DPY353	
24	5A	CBI245A	DPY353	
24	10A	CBI2410A	DPY353	
24	10A	CBI2801224A	DPY351 - DPY353	ModBus RTU
24	20A	CBI2420A	DPY351 - DPY353	ModBus RTU
48	5A	CBI485A	DPY353	
48	10A	CBI4810A	DPY351 - DPY353	ModBus RTU

Input Data

Nominal Input Voltage Vac	**115 – 230 – 277**
Voltage range Vac	**90 ÷ 305**
Frequency	**47 ÷ 63 Hz**
For other data please refer to specific CBI'S data sheet	

Generic Output Data "Load side"

Output Voltage 12 – 24 – 48 Vdc.:	**Depend on CBI**
Output Number	**2**

Battery Output Connection

Output Voltage Battery	**Depend on CBI**

Signal Output Alarm (free switch contacts)

Main or Backup Input Power	**Yes**
Battery Fault	**Yes**
Generic System Fault	**Yes**

Battery Type Capacity

Lead Acid Ah	**1.2–3–7–12–18**

Signal Input / Output (on Aux1 CBI)

Temp. Comp. Battery (with external probe)	**Yes**
Remote monitoring display	**DPY351 or DPY353**
Connection Ethernet	**By DPY351**
Connection ModBus by CBI. See Table:	**Device Config.**

General Data

Protection Class (EN/IEC 60529)	**IP30(indoor use only)**
Protection class (PE Connected)	**I, with PE**
Steel enclosure, painted steel, Coating:	**White or Black**
Dimensions (w-h-d)	**240x310x150 mm**
Weight	**kg 6.8 pprox..**

Climatic Data

Ambient temperature (operation)	**-25 ÷ +70°C**
De Rating T^a > 50°C	**- 2.5%(In) / °C**
Ambient temperature Storage	**-40 ÷ +85°C**
Humidity at 25 °C no condensation	**95% to 25°C**
Cooling	**Auto convention**

Norms and Certifications

In Conformity to: EN60950 / UL1950 Electrical safety; EN54-4 Fire Detection and fire alarm systems and EN12101-10. Electromagnetic Compatibility *2014/30/EU*; Low Voltage 2014/35/EU; Safety Standard EN IEC 62368-1: 2014/AC:2015 Restriction of Hazardous Substances directive (RoHS) 2011/65/EU
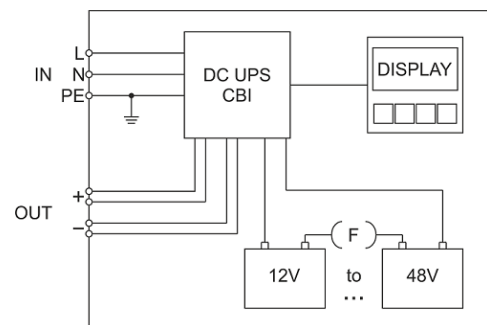
Ordering

Enclosure coating **White,** Code:	**SFP544-xxxW**
Enclosure coating **Black**, Code:	**SFP544-xxxB**

Accessory

All Range DC UPS	**CBI xxxx A**
3.5" Graphic display for Monitoring and Ethernet	**DPY351**
5 LED display for Monitoring Alarm	**DPY353**
IIoT Software "ADELView System"	
Temperature Battery Compensation Probe	**RJTEMP xxx**

Electrical Diagram

Drawings
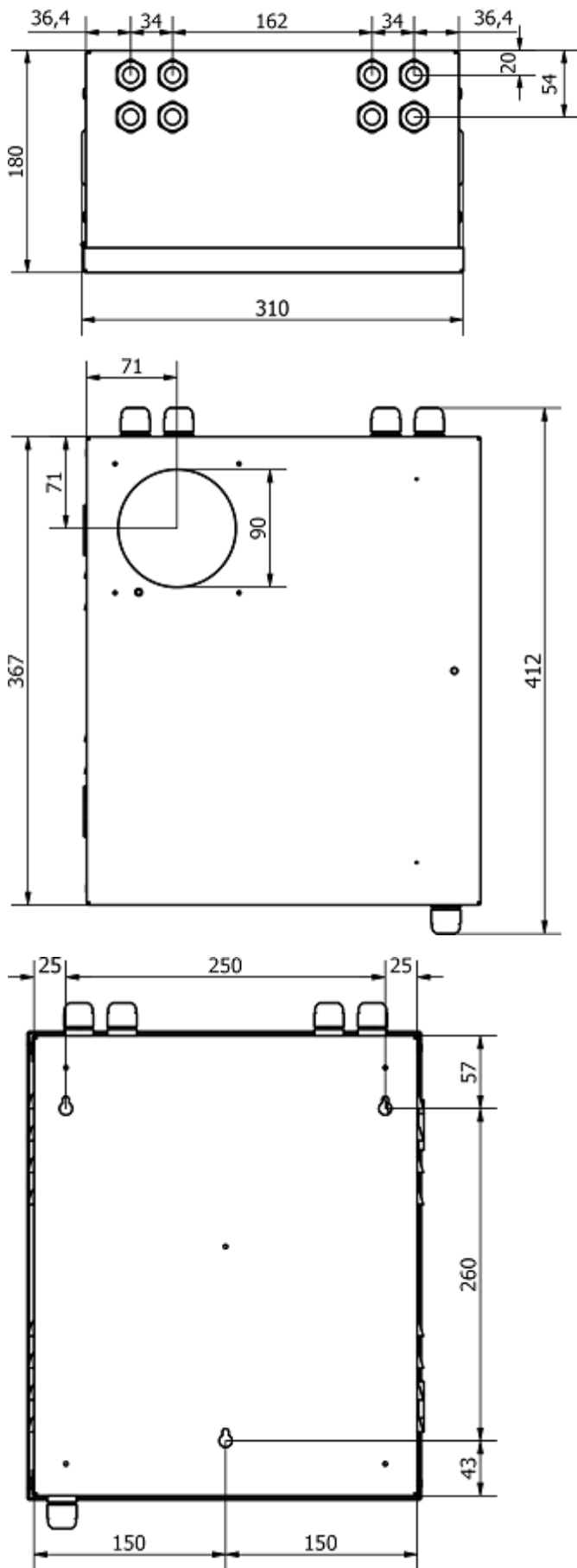
Battery Configurations

| 1.2Ah | 1.2Ah |
| + − | + − |

| 3.4Ah | 3.4Ah |
| + | − + | − |

| 7.2Ah | 7.2Ah |
| + | − + | − |

| 12Ah | 12Ah |
| + | − + | − |

| 18Ah |
| + | − |
| − | + |
| 18Ah |

ADELSYSTEM

SFP544
All specifications are subject to change without notice