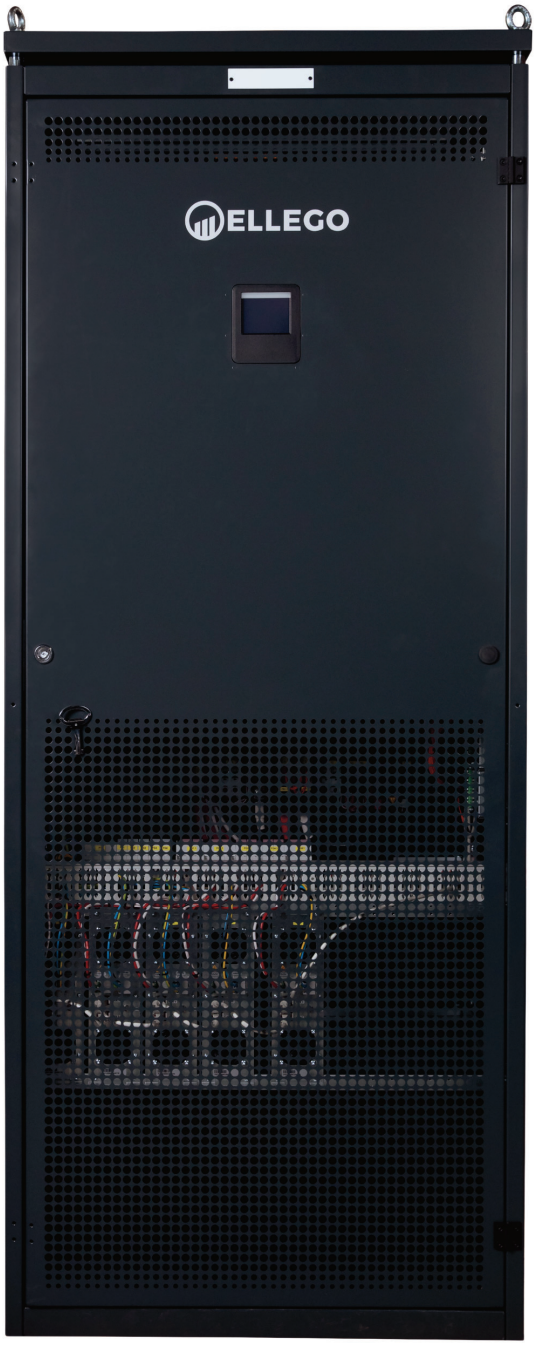
ELLEGO

DC-UPS SYSTEM

EDC-F

A modern and reliable multipurpose battery-packed DC power supply (DC-UPS) with digitally controlled switch-mode modules.



- 800 W or 3,2 kW switch-mode modules
- Charger and battery monitoring
- User-friendly touchscreen
- Visual status indication
- Alarm and event log

Typical applications:

- power plants
- electrical substations
- process industry

DC-UPS SYSTEM

Electrical Characteristics	
Input voltage	230/400 VAC +/- 10 %, 50 Hz +/- 2,5 %
Rated output voltage	24, 48, 110, 220 Vdc
Output ripple voltage	<50 mV rms
Max output power	24 kW / 110-220 Vdc and 9 kW / 24-48 Vdc
Output voltage range	0...1,3*Un
Charging curves	IU
Battery capacity and distribution	According to the customer requirements

Environment	
Ambient temperature	0...+40°C
Relative humidity	95 %, non-condensing +20°C
Attitude above sea level	<1000 m

Enclosure	
Dimensions	2150 x 800 x 600 mm (HxWxD)
	2150 x 600 x 600 mm (HxWxD)
Degree of protection	IP21
Basic colour	RAL 7016
Cooling method	AN/AF

Key Features
Alarm and event log
Float charge
Boost charge
Battery test

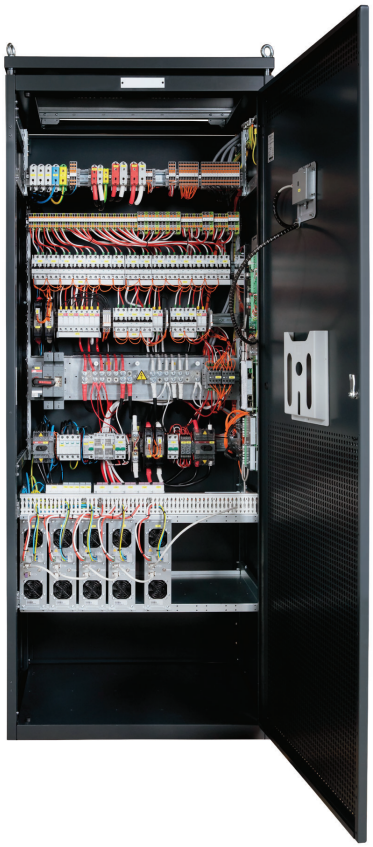
Optional Features
Charging voltage temperature compensation
Battery capacity test
Battery cell monitoring

Basic Interface and Monitoring	VELA monitoring unit
Language	EN, FI, SV, ES, PT and IT
Visual indication	Touch screen with a 3-colour theme
Signalization	Potential free relay outputs, communication buses

Data Communication
WebUI
WebAPI
IEC 61850 Ed.2
Modbus TCP/IP
Data communication is based on an Ethernet network

System Configurable Options
Output power redundancy
Analogue V/A-meters
Measurement transducers
Switch fuses
Parallel connection switches
Battery test terminals and switch
Double input with manual or automatic change over
Separate battery cabinet
Cubicle-type assembly

Standards	
Electrical/Structure	IEC 61439-2
EMC	IEC 61000-6-2, IEC 61000-6-4, IEC 61000-6-5
Communication	IEC 61850 Ed.2, IEEE 802.3
Battery	EN 50272-2
Cyber	IEC 62443-4



Protection for cybersecurity threats is implemented according to the IEC 62443-4 for security class 1 and device type embedded. The requirement for the local secure operation environment applies (system level). This device supports TCP/IP/Ethernet based wired digital communication. Wireless communication is not implemented. This device does not process or store sensitive information. For cybersecurity related inquiries, and reporting vulnerabilities or incidents, please contact **cert@ellego.fi**

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