










VELA™ MONITORING UNIT

VELA™ Monitoring Unit

Monitoring unit with touchscreen for ELLEGO battery chargers.



-  Visual status indication
-  Configurable operating parameters
-  User-friendly touch screen
-  Remote monitoring
-  Testing features
-  Multiple I/O options
-  Alarm and event log



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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Electrical Characteristics

Input voltage	12 VDC
Screen	Resistive touchscreen 3,5", colour
Ambient temperature	-10...+70°C
Relative humidity	95 %, non-condensing +20°C
Attitude above sea level	2000m
Degree of protection	IP44 (front side)
EMC	EN 55022A
Safety	EN 60950-1

Key Features

Language	EN, FI, SV, ES, PT and IT
Configurable system parameters	PIN-protected read and write access
Main functions	Float charge Boost charge Battery test
Charging voltage temperature compensation	Temperature sensor for battery temperature measurement
Measurements and data	Charger voltage and current Charging voltage and current Battery voltage and current Battery temperature Charging status Charger unit status Output alarm status Output signal status Product information ESD (Emergency Shut Down)
Color-coded indication	Green / yellow / red / LED
Examples of alarms	Input failure Output overvoltage Output undervoltage Blown fuse Ground fault Battery test failed
Alarm and event log	Alarm and event log with date and time stamps Up to 10 000 alarms and events On the VELA screen, with internal memory and on WEB pages Log files can be downloaded remotely
Remote monitoring options	Up to 16 potential-free relay contacts IEC 61850 Ed.2: measurements, alarms, and status information WEB page (read-only access) and simultaneous access up to 3 users Modbus TCP/IP Web API for machine-readable interfaces Ethernet, TCP/IP, support for DHCP, NTP support

VELA compatibility

EVV chargers
PVF800 and PVF3200 rectifier modules

Optional Features

Alarm management	Manual control of alarm relays
Screensaver mode	30-minute delay, status indication color remains visible
Analog meters (according to customer requirements)	For voltage and current measurement

Options (available upon request)

Customer-specific software	Software customization Customized functions New features through software updates New languages
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