

ePowerLog DL Series

Universal Data Logger



PRODUCT DESCRIPTION

ePowerLog is a universal datalogger designed for solar energy systems. It integrates with standard and hybrid systems, incorporating battery storage, diesel generators, and even EV chargers.

It functions as a central hub, collecting data from multiple sources and transmitting it to a cloud monitoring platform for both local and remote access.

PRODUCT FEATURES

eConf¹ : Intuitive commissioning interface & pre-configured communication drivers library: configuration via any local web browser for quick setup and commissioning, with a drop-down list of common devices for faster configuration.

Log: View and download error logs and setpoints history from the “Logs” page for easy diagnosis.

Power Flow Graph: Real-time visualization of energy flows between sources and loads, enabling quick monitoring, trend analysis, and troubleshooting through live power data and device statuses.

■ Comprehensive energy data logging

- PV inverters data and alarms
- Gensets data and alarms
- BESS data and alarms
- Grid data and alarms
- Weather station data
- Sensors data (Irradiance, temperature...)
- TIC (or impulsion) meter data ²
- Digital and analog signals (via optional I/O modules)
- Linked devices status

PRODUCT BENEFITS

- 1. Guaranteed interoperability:** with a large number of devices (inverters, EV chargers, ESS, gensets controllers, meters, sensors, etc..).
- 2. Multi-brand compatibility:** ensures a homogeneous and uniform management of your installations by mixing different brands for more flexibility during project design & engineering phases.
- 3. Effortless commissioning** reduced commissioning time and cost with an user-friendly configuration interface (eConf¹).

■ Flexible communication & interoperability

Integrates with MODBUS TCP/RTU and offers additional protocol support upon request.³

■ Reliable data logging

Prioritizing data security, it ensures reliable acquisition and logging from all on-site devices. Secure local storage is complemented by an embedded database, guaranteeing data integrity.

■ Data export & visualisation

Multiple ways for data export and visualisation available:

- **Locally**, through eConf¹ platform, via USB or Embedded Modbus Server (to connect to 3rd party Modbus master).
- **Remotely**, using Elum ePowerMonitor⁴ or compatible third-party monitoring platforms (FTP push, API integration).

1. is a user-friendly tool for configuring Elum loggers and controllers, find more details here : [eConf](#).

2. Through an additional device.

3. Refer to [the compatibility list](#) for more details

4. is a data-visualization platform for managing multi-energy sites, find more details here : [ePM](#).

TECHNICAL SPECIFICATIONS

GENERAL INFORMATION	DL 500	DL 1000	DL 3000	DL 10 000
Dimensions (mm)	Base module - 101 x 27 x 128 (with casing - 300 x 300 x 150)		Base module - 132 x 122 x 87 (with casing - 500 x 400 x 250)	
Weight (base module)	224 g		1,340 g	
Maximum capacity (indicative solar kWp)	500 kWp	1,000 kWp	3,000 kWp	10,000 kWp
Maximum BESS Capacity (kWh)	500 kWh	1,000 kWh	3,000 kWh	10,000 kWh
Max. number of devices	64	128	240	240
PV inverters	16	32	64	128
BESS	16	32	64	128
Genset	16	32	64	128
Meters	16	32	64	128
IO Modules	2	4	8	8
Grid Connections (point of injection)	1	1	1	1
Standards (base module)	IEC 60068-2-27, IEC 61000-4-2/3/4/6/8, UL 60950-1			
Installation	DIN rail mounting			
Protection class (for optional wall mounting kit)	IP 66			
AMBIENT CONDITIONS				
Temperature	-10° C to 60° C		-40° C to 70° C	
Humidity	5% to 95% (non condensing)			
POWER SUPPLY				
Input parameters	12 to 24 VDC, 480 mA @ 12 VDC, 225 mA @24 VDC, without casing 100 - 240 VAC, 50 Hz / 60 Hz, with Elum casing			
Power consumption (max)	20W		50W	
COMMUNICATION & SECURITY				
Compatible protocols	Modbus TCP/RTU ¹ (Other protocols can be configured upon request)			
Compatible Wiring	2 x serial (RS485/RS422/RS232); 1 x LAN (RJ45 - 100 Mbps); 1 x USB 2.0-A		4 x serial (RS485/RS422/RS232); 3 x LAN (RJ45 - 1,000 Mbps); 1 x VGA / 2 x USB 2.0-A	
Cellular modem	Optional - LTE/HSPA+/GSM/GPRS/EDGE/EV-DO			
Remote access	eConf ² / ePowerMonitor ³ / 3rd party Monitoring Platforms (FTP Push)			
OTHER INTERFACES				
Multi-functional I/O module	Optional - up to 16: Digital signals, TIC, pulse, 0-10V, 4-20mA...			
Power measurement	Optional - up to 16			
DATA ACQUISITION				
Collected data	Active power, reactive power, current, voltage, fuel level, fuel efficiency, ... ⁴			
Devices alarms (on ePowerMonitor ³)	Mail & web notifications, configurable thresholds on all read variables			
Cloud storage granularity	10 minutes for data on ePowerMonitor ³ , 5 minutes for data on some third party platforms, real-time for alarms			
SYSTEM RESILIENCE⁵				
Data storage	8Go (optional 32Go) → 100 days of data stored		32Go (up to 256Go) → 100 days of data stored	
Data Export	USB CSV export/ FTP/FTPS standard, EnergySoft, QOS, Meteocontrol			
Back-up UPS	Optional - 19,2 / 28.8 / 76,8 / 172.8 / 288 Wh (Up to 24h autonomy)			

1. Refer to [the compatibility list](#) for more details.

2. is a user-friendly tool for configuring Elum loggers and controllers.

3. is a data-visualization platform for managing multi-energy sites.

4. Sample list. Data will be in accordance with the connected device.

5. Standard offer specifications. Can be changed upon request.

