LexaVolt

DATASHEET **PRELIMINARY**

Secure DER Gateway · *LV-01*



The LexaVolt LV-01 is a secure communication gateway for inverters. It converts the inverter's SunSpec Modbus into the protocols US utilities and aggregators require for remote monitoring, control and dispatch. Every grid-facing connection is secured with mutual TLS.

- Works with your existing SunSpec Modbus inverter
- Supports IEEE 2030.5 / CSIP and Secure SunSpec Modbus
- Simple setup from a phone over Bluetooth
- Mutual TLS with a unique certificate for every device
- Zero-export fail-safe if the utility link is lost
- Serves the utility and an aggregator at the same time

Model	LV-01
Processor and Memory	
Processor	Dual-core 64-bit Arm, 1.7 GHz
Memory	1 GB LPDDR4
Storage	8 GB eMMC
Electrical	
Power Input	Terminal block, 9 ~ 36V DC
Power Consumption (W)	< 5
Communication Interface	
Ethernet	Gigabit Ethernet × 2
RS485	COM × 1, isolated
CAN	CAN × 1, isolated
WiFi	IEEE 802.11 a / b / g / n / ac / ax @ 2.4 / 5 GHz
Bluetooth (commissioning)	Bluetooth LE
Communication Protocol	
Ethernet / WiFi	IEEE 2030.5 / CSIP, Secure SunSpec Modbus, Modbus-TCP
RS485	Modbus-RTU
Security	
Secure Boot	Signed firmware, hardware root of trust
Key Storage	Hardware secure element, non-exportable keys
Certificate Storage	Encrypted on-device X.509 certificate store
Communication Security	Mutual TLS 1.2 / 1.3
Access Control	Role-based, certificate-defined
Firmware Update	Signed OTA with A/B rollback
Mechanical	
Dimensions (W × H × D mm)	85 × 155 × 35
Installation Method	DIN Rail Mounting

Specifications are preliminary and subject to change.
Product image is for reference only. The final product may look different.