SIEMENS

VersiCharge

Product information: VersiCharge data

Introduction

The EU Data Act (Regulation (EU) 2023/2854), a key component of the European data strategy, went into effect on January 11, 2024. This regulation establishes harmonized rules on fair access to, and use of data generated by connected products. This document provides you, as a user of the VersiCharge system (IEC product variant), with the information required under Article 3 (2) of the EU Data Act regarding data generated by the VersiCharge system and your rights to access and use this data in accordance with Article 3 (2) of the EU Data Act.

1. Applicable products

This document is applicable for VersiCharge IEC variants, which can be identified as follows:

Versicharge IEC		**Description**	**MLFB**
1 Phase	**Socket**	IEC 1Ph 7.4kW Child Type 2 Socket	8EM1310-2EH04-0GA0
		IEC 1Ph 7.4kW Prnt/Cell Type 2 Socket w/o SIM	8EM1310-2EH04-3GA1
		IEC 1Ph 7.4kW Prnt/Cell Type 2 Socket	8EM1310-2EH04-3GA2
	Cable	IEC 1Ph 7.4kW Child 7m Type 2 Cble	8EM1310-2EJ04-0GA0
		IEC 1Ph 7.4kW Prnt/Cell 7m Type 2 Cble w/o SIM	8EM1310-2EJ04-3GA1
		IEC 1Ph 7.4kW Prnt/Cell 7m Type 2 Cble	8EM1310-2EJ04-3GA2
	Shutter	IEC 1 Ph 7.4kW child shutter only	8EM1310-2EN04-0GA0
		IEC 1 Ph 7.4kW Parent w/o SIM shutter only	8EM1310-2EN04-3GA1
		IEC 1 Ph 7.4kW Parent w/ SIM shutter only	8EM1310-2EN04-3GA2
3 Phase	**Socket**	IEC 3Ph 22kW Child Type 2 Socket	8EM1310-3EH04-0GA0
		IEC 3Ph 22kW Prnt/Cell Type 2 Socket w/o SIM	8EM1310-3EH04-3GA1
		IEC 3Ph 22kW Prnt/Cell Type 2 Socket	8EM1310-3EH04-3GA2
	Cable	IEC 3Ph 22kW Child 7m Type 2 Cble	8EM1310-3EJ04-0GA0
		IEC 3Ph 22kW Prnt/Cell 7m Type 2 Cble w/o SIM	8EM1310-3EJ04-3GA1
		IEC 3Ph 22kW Prnt/Cell 7m Type 2 Cble	8EM1310-3EJ04-3GA2
	Shutter	IEC 3 Ph 22kW child shutter only	8EM1310-3EN04-0GA0
		IEC 3 Ph 22kW Parent w/o SIM shutter only	8EM1310-3EN04-3GA1
		IEC 3 Ph 22kW Parent w/ SIM shutter only	8EM1310-3EN04-3GA2
ERK	**Socket**	IEC 3 Ph 22kW Child socket ERK	8EM1310-3FH04-0GA0
		IEC 3 Ph 22kW Parent w/o SIM socket ERK	8EM1310-3FH04-3GA1
		IEC 3 Ph 22kW Parent w/ SIM socket ERK	8EM1310-3FH04-3GA2
	Cable	IEC 3 Ph 22kW Child cable ERK	8EM1310-3FJ04-0GA0
		IEC 3 Ph 22kW Parent w/o SIM cable ERK	8EM1310-3FJ04-3GA1
		IEC 3 Ph 22kW Parent w/ SIM cable ERK	8EM1310-3FJ04-3GA2

2. Type, Format and Estimated Volume of Generated Data

2.1 Data-Generating Components

The VersiCharge charger includes the following data-generating and storing elements:

- CPU A8 – ARM A8 TI AM3352
- CPU M0 – STM32F091VCT6 (IEC product variant)

2.2 Types of Data Generated

These components generate, handle and store data locally; this includes the following categories of data:

Type of Data[1]	Formats and interface	Estimated Volume and Frequency[2]
Charging session data (e.g. metering data, duration, actual power, kWh charged, charging status)	OCPP 1.6j log files (text based), Modbus TCP/RTU (optional), WSS	OCPP: Continuously (frequency depending on CPO configuration, typical 30s) during a charging session, additionally on demand. Volume depending on charging session frequency and durations. VersiCloud: Continuously (frequency depending on Siemens Device Management configuration, typical 60s) during a charging session, additionally on demand. Volume depending on charging session frequency and durations. Modbus: Frequency and volume depending on polling frequency of Modbus, Baud Rate: 38400, Minimum Poll rate: 2 s. Intermediate storage before sending to OCPP backend. CPU M0: Continuously (frequency depending on CPO configuration between 1-15s) during a charging session, additionally on demand. Intermediate storage volume < 1KB before sending via CPU A8 to OCPP or Modbus
Configuration data (e.g. network settings, max. power)	OCPP 1.6j	During configuration activities. Volume < 1MB Local storage of configuration data is permanent.
Firmware update, Siemens Device Management configuration data (OTA, diagnosis, logging level, OCPP settings)	HTTPS/WSS/SFTP	VersiCloud, OTA FW Server: FW update and configuration change settings are event driven. Volume 2MB < 40MB
Logging information (text files with charging and status history for maintenance purposes)	Log files (text based), TLS/TCP	Continuously, upon triggering event, e.g. charging session data. Volume varying on use, typically 2 MB/week Storage locally for up to 1 week, up to 90 Days in cloud.
System status (charger hardware related information, e.g. temperatures, status of components)	Modbus TCP/RTU	Frequency and volume depending on polling frequency of Modbus, Baud Rate: 38400, Minimum Pollrate: 2 s. No local storage.

[1] *All data is described in more detail under section 3 below, structured by the interfaces through which it is available*.

[2] *Data volume is strongly dependent on the specific usage and configuration of the system. Detailed information can be found in the respective interface descriptions in section 3 below*.

Data is generated and communicated continuously and in real-time.

3. Data Storage and Access Methods

For an overview of the interfaces of VersiCharge, please refer to the document "VersiCharge Connectivity Guide", available on SIOS:
https://support.industry.siemens.com/cs/document/109805636/versicharge-connectivity-guide?dti=0&lc=en-US

3.1 OCPP 1.6j Interface to CPO Backend

During operation, VersiCharge is controlled by a backend operated by a Charge Point Operator (CPO).
The complete data specification is available in the OCPP protocol definition, available e.g. from the Open Charge Alliance:
https://openchargealliance.org/protocols/open-charge-point-protocol/#OCPP1.6
VersiCharge specific implementations are documented in the document "VersiCharge OCPP Implementation Guide", available on SIOS:
https://support.industry.siemens.com/cs/document/109814941/versicharge-ocpp-implementation-guide-?dti=0&lc=en-US
Occurrence and volume: see table above.
To access the data, an OCCP backend and appropriate authorization is required.

3.2 Modbus interface

Modbus TCP/RTU can optionally be used for load management. The functionality and related data are described in the document "ModBus Map", available on SIOS:
https://support.industry.siemens.com/cs/document/109814359/versicharge-ac-series-modbus-map?dti=0&lc=en-US
Occurrence and volume: see table above.
To access the data a Modbus client or a Modbus master software and appropriate authorization is required.

3.3 Interface to Siemens Device Management (VersiCloud)

VersiCharge can be configured and remotely monitored through a service connection via WiFi, Ethernet, Mobile wireless (only with parent devices) with HTTPS/WSS/SFTP connection to VersiCloud, the cloud based service for managing EV chargers from Siemens.
Occurrence and volume: see table above.
To access such data, a backend maintenance user account and appropriate authorization is required to the site https://versicharge.emobility.siemens.cloud/.

3.4 System Logs

VersiCharge continuously generates text-based log files which contain detailed operation data. These logs are stored locally for up to 1 week and also transferred to a cloud service for longer-term storage 90 Days.
Occurrence and volume: see table above.
To access such data, an OCPP 1.6j backend or Log Management services (e.g. https://insight.rapid7.com/, https://eu.ops.insight.rapid7.com/) can be used.

4. Data Retrieval and Erasure Requests

The above interfaces provide comprehensive control of the data handled by the charger. In case you require additional data which might not be accessible through such interfaces or want to request specific data erasures, please use the following form:

eMobility customer service
https://www.siemens.com/global/en/products/energy/emobility/services/emobility-customer-service.html

5. Additional Documentation

Comprehensive documentation of the VersiCharge is available on the following SIOS site
https://support.industry.siemens.com/cs/document/109817093/documentation-versicharge-wallbox-iec-and-ul?dti=0&lc=en-WW