



Tesla Industrial Energy Approved Vendor List

Revision 2.7

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Reference Documents

The following documents may be referenced in this document or may provide additional, related information:

- SCADA Design Manual – https://partners.tesla.com/home/en-US/content/download/SCADA_Design_Manual.pdf
- Megapack 2 XL Design and Installation Manual – https://partners.tesla.com/home/en-US/content/download/Megapack_2_XL_Design_and_Installation_Manual.pdf
- Megapack 2 Design and Installation Manual – https://partners.tesla.com/home/en-US/content/download/Megapack_2_Design_and_Installation_Manual.pdf
- Megapack Site Design Manual – https://partners.tesla.com/home/en-US/content/download/Megapack_Site_Design_Manual.pdf
- Powerpack 2 System Site Design Manual – https://partners.tesla.com/home/en-US/content/download/Powerpack_2_System_Site_Design_Manual.pdf
- Islanding Controller Specification – https://partners.tesla.com/home/en-us/content/download/islanding_controller_specification.pdf
- Application Note: Using SEL-735 Meters with Tesla Products – https://partners.tesla.com/home/en-US/content/download/Using_SEL-735_Meters_With_Tesla_Products_Appnote.pdf
- Using Acuvim II Meters With Tesla Products – https://partners.tesla.com/home/en-US/content/download/Using_Acuvim_II_Meters_With_Tesla_Products.pdf
- Controls and Communications Manual - v2 Platform - Utility-Scale Projects – https://partners.tesla.com/home/en-us/content/download/controls_and_communications_manual.pdf
- Controls and Communications Manual - v2 Platform - C&I Projects – https://partners.tesla.com/home/en-us/content/download/controls_and_communications_manual_ci.pdf
- Renewable Generation Controller Specification – https://partners.tesla.com/home/en-us/content/download/renewable_generation_controller_specification.pdf



1 Overview

The *Tesla Industrial Energy Approved Vendor List* (AVL) provides the list of specific devices that Tesla has approved for integration with the Tesla System Controller, which is used across Tesla's Industrial Energy Storage products, including Powerpack and Megapack.

AVL components are listed by specific make and model. A similar model to an approved device is not approved unless explicitly listed. Tesla does not provide any preference to a particular set of vendors or devices on the AVL and does not have any exclusivity agreements with vendors on the AVL. Tesla may update the AVL periodically.

Approved means that Tesla has approved the specifications of each device on the AVL based on relevant OEM information, and the Tesla System Controller will be deployed with validated drivers for each device listed on the AVL. The devices themselves are outside Tesla's scope, and Tesla makes no representations about the function of any of these devices beyond the control interface. The device supplier is responsible for ensuring that their device performs to specification.



CAUTION: Tesla recommends and supports using drivers from the approved lists in this document. Tesla does not support drivers that are not on the lists. Contact your Tesla representative for additional assessment if you have questions on drivers that are not included in this document.



2 Generator Controllers

An approved generator controller should be installed to control the generator and synchronizing breaker, and to disconnect the generator from the bus during a fault. Approved generator controllers are listed below. Generator models are not specified. Refer to the relevant *Design and Installation Manual* for additional design-related information.

Table 1. Approved Generator Controllers

Generator Controller	Modbus Gateway Required?	Additional Requirements / Notes
Cummins PCC 3300	Yes - see Modbus Gateways on page 7	None
DeepSea 8610 MKII	No	The existing DSE 8610 MKII must be upgraded to a droop-compatible firmware version. Older model DSE 8610 MKIs must be upgraded to DSE 8610 MKII for droop operation. Refer to Deep Sea Electronics' documentation for 056-089 for the upgrade procedure.
Woodward easYgen 3200XT	No	None
DEIF AGC 242	No	None
ComAp IntelliGen NTC BaseBox (IG-NTC-BB)	No	Tesla cannot support dead-bus paralleling.
ComAp IntelliGen NTC (IG-NTC-GC)	No (requires InternetBridge-NT)	Tesla cannot support dead-bus paralleling.



3 Islanding Controllers

An islanding controller is required for customers at sites that intend to switch between grid-connected and islanded configurations. The following islanding controllers are supported by Tesla:

- Schweitzer Engineering Labs SEL-700G+ relay
- Schweitzer Engineering Labs SEL-751 relay



NOTE: SEL-751A is not approved

Tesla can interface with these devices only if the device configuration complies with requirements detailed in the relevant *Design and Installation manual*. For additional configuration information, refer to the *Islanding Controller Specification*.

Customers may also choose to directly dictate the transitional behavior of the battery system. In this option, Tesla does not require an islanding controller to be integrated with the Tesla system. The customer is responsible for maintaining the system in the appropriate state relative to the status of the grid connection and handling conditions such as loss of communications. Contact your Tesla representative for additional details on this option.

4 Meters

The Tesla System Controller uses various meter inputs for different control functions. The Tesla System Controller supports only the meter hardware as listed below, using TCP/IP communication. For additional design information, refer to the appropriate product *Design and Installation Manual*.

Table 2. Approved Meters

Meter	Additional Requirements / Notes
Megapack 2 and Megapack 2 XL: SEL-735 Power Quality and Revenue Meter	Any model that supports Form 9 (Wye) or Form 5 (Delta) and has an Ethernet port (copper or fiber). For configuration and settings information, refer to the <i>Application Note: Using SEL-735 Meters with Tesla Products</i> .
Megapack 1 and Powerpack 2: - Accuenergy Acuvim IIR/IIE/IIW – with additional AXM-WEB2 Ethernet module for Modbus TCP - Schneider PowerLogic ION8650 - Schneider PowerLogic ION7550 - Nexus 1262 - SEL 735 Power Quality and Revenue Meter	For configuration and settings information, refer to the <i>Using Acuvim II Meters With Tesla Products</i> guide or the <i>Application Note: Using SEL-735 Meters with Tesla Products</i> .



5 Modbus Gateways

The Tesla System Controller uses Modbus TCP to communicate with end-devices. Thus, a Modbus RTU to TCP gateway will be required for integrating the Tesla System Controller with devices that do not natively support Modbus TCP. Gateway requirements are indicated in device-level tables. Consider the power source for the gateway to ensure that the gateway is powered whenever the device is available.

Table 3. Approved Modbus Gateways

Modbus Gateway	Additional Requirements / Notes
Moxa MB3170-T	Can support serial communication to up to 32 devices of the same type.



6 Solar Inverters

The Tesla System Controller will control and monitor each inverter directly. A solar inverter manager must be installed if required to facilitate Modbus TCP with the solar inverter. For other solar inverter models, a solar inverter manager is recommended to update firmware remotely and simplify the commissioning process. The tables below provides a list of solar inverters for which a Modbus interface has been developed and tested.

Refer to the relevant *Design and Installation Manual* for additional design-related information, and the relevant *Controls and Communications Manual* for information about Archetypes.

Table 4. Approved Solar Inverters – Utility Hybrid Archetype

Solar Inverter	Compatible Solar Inverter Manager(s)	Solar Inverter Manager Required or Recommended?	Additional Requirements / Notes
Ingeteam - IEC models INGECON SUN 100TL	Not available	Not required	
Generic controller - Refer to the <i>Renewable Generation Controller Specification</i> for required configuration information.			

Table 5. Approved Solar Inverters – All Other Archetypes

Solar Inverter	Compatible Solar Inverter Manager(s)	Solar Inverter Manager Required or Recommended?	Additional Requirements / Notes
SMA			
<i>US models</i> STP CORE1 33-US-41 STP CORE1 50-US-41 STP CORE1 62-US-41 STP CORE1 50-US-40 STP 12000TL-US-10 STP 15000TL-US-10 STP 20000TL-US-10 STP 24000TL-US-10 STP 30000TL-US-10 SHP PEAK3 125-US-20 SHP PEAK3 150-US-20 <i>IEC models</i> STP 3.0-3AV-40	Data Manager M (EDMM-10)	EDMM-10 is recommended for firmware updates and commissioning	Connect the SMA inverters to the same network (LAN) as the Ethernet port on EDMM-10. The Tesla System Controller will not communicate with EDMM-10. All Modbus TCP communication with the SMA inverter will be handled directly with the Speedwire data module on the inverter in a daisy-chain network.



Solar Inverter	Compatible Solar Inverter Manager(s)	Solar Inverter Manager Required or Recommended?	Additional Requirements / Notes
STP 4.0-3AV-40			
STP 5.0-3AV-40			
STP 6.0-3AV-40			
STP 8.0-3AV-40			
STP 10.0-3AV-40			
STP 15000TL-30			
STP 20000TL-30			
STP 25000TL-30			
STP CORE1 50-40			
STP 5000TL-20			
STP 6000TL-20			
STP 7000TL-20			
STP 8000TL-20			
STP 9000TL-20			
STP 10000TL-20			
STP 12000TL-20			
STP 10000TL-10			
STP 12000TL-10			
STP 15000TL-10			
STP 17000TL-10			
STP 15000TLEE-10			
STP 20000TLEE-10			
STP CORE2 110-60			
Huawei			
<i>US models</i>	Smart Logger 2000, 3000A, 3000B	Smart Logger is required for Modbus TCP	
SUN2000-33KTL-US			
SUN2000-36KTL-US			
SUN2000-40KTL-US			



Solar Inverter	Compatible Solar Inverter Manager(s)	Solar Inverter Manager Required or Recommended?	Additional Requirements / Notes
SUN2000-100KTL-USH0 <i>IEC models</i> SUN2000-33KTL-A SUN2000-36KTL SUN2000-42KTL SUN2000-50KTL SUN2000-50KTL-C1 SUN2000-60KTL-M0 SUN2000-100KTL-H1 SUN2000-175KTL-H0 SUN2000-185KTL-INH0 SUN2000-185KTL-H1			
Fronius			
<i>US models</i> Eco 27 (60 Hz) <i>IEC models</i> Eco 25 (50 Hz) Eco 27 (50 Hz)	Data Manager	Data Manager is required for Modbus TCP	No more than two inverters can be connected to a single Data Manager
ABB			
<i>US models</i> TRIO-60.0-TL-OUTD-US-480 TRIO-TM-60.0-480 <i>IEC models</i> TRIO-50.0-TL-OUTD TRIO-TM-50.0-400	VSN700 Datalogger	VSN700 Datalogger is required for TL-OUTD models but not TM models, as the latter have Ethernet ports to support Modbus TCP	Connect one inverter to the VSN700 in a daisy chain RS485 network
<i>US models</i> PVS-175-TL-US	Not available	Not required	



Solar Inverter	Compatible Solar Inverter Manager(s)	Solar Inverter Manager Required or Recommended?	Additional Requirements / Notes
<i>IEC models</i> PVS-50-TL PVS-60-TL PVS-100-TL PVS-120-TL			
SolarEdge			
<i>US models</i> SE9KUS SE10KUS SE14.4KUS SE20KUS SE30KUS SE33.3KUS SE43.2KUS SE66.6KUS SE100KUS SE120KUS <i>IEC models</i> SE3K SE4K SE5K SE5K-AU SE6K SE7K SE7K-AU SE8K SE8K-AU SE9K	SolarEdge Control and Communications Gateway (CCG)	The SolarEdge CCG is only required when multiple inverters are connected in a daisy chain RS485 network and when there is no internet connection available to individual inverters	Reach out to Tesla for the preferred network topology to connect the Tesla System Controller to SolarEdge inverters



Solar Inverter	Compatible Solar Inverter Manager(s)	Solar Inverter Manager Required or Recommended?	Additional Requirements / Notes
SE10K			
SE12.5K			
SE15K			
SE16K			
SE17K			
SE25K			
SE27.6K			
SE33.3K			
SE50K			
SE55K			
SE82.8K			
SE66.6K			
SE100K			
Chint			
US models	Flex Gateway	Flex Gateway is required to be installed for Modbus TCP and Chint monitoring portal access	One Flex Gateway can support up to 32 inverters
CPS SCA50KTL-DO/US-480			
CPS SCA60KTL-DO/US-480			
CPS SCA25KTL-DO/US-480			
CPS SCA36KTL-DO/US-480			
Solectria			
PVI 50 TL	N/A	Moxa MB3170-T is required to be installed if the Ethernet port is not available to support Modbus TCP	Mapping identical to Chint flex gateway. Controller is configured as communicating with Chint inverter.
PVI 60 TL			



7 Data Diode

A data diode or unidirectional gateway is a network appliance or device that allows data to travel in only one direction. For sites with restricted remote access, Tesla's Data Proxy application can interface with a data diode to ensure that no outside traffic reaches the plant-side network. This also ensures that Tesla System Controller never receives acknowledgement from the Tesla cloud that telemetry was successfully uploaded.

The following data diodes are now supported by Tesla's Data Proxy application:

- Waterfall (WF-600)

Customers are responsible for purchasing, configuring, and maintaining their own data diodes for the lifetime of the project.



Revision History

Revision	Date	Description
2.7	October 20, 2025	- Clarified requirements for solar inverters for projects using the Utility Hybrid Archetype (Solar Inverters on page 8) - Added data diode section (Data Diode on page 13)
2.6	October 23, 2024	- Provided approved meters (Meters on page 6) - Provided approved islanding controllers (Islanding Controllers on page 5) - Clarified generator controller requirements (Generator Controllers on page 4)
2.5	September 1, 2023	- Added two Chint models to approved (previously provisional) - Added two Solectria models to approved (previously provisional) - Added two ComAp controllers to approved (previously provisional) - Removed references to <i>provisional</i> items - Removed meteorological sensors; no longer supported
2.4	July 16, 2021	- Global SolarEdge models to Approved, and 120US to Approved - Ingeteam 100 to Approved - Fronius Symo 60Hz re-added - Huawei IEC models and 175/185 to Approved - DEIF AGC-150 added to provisional - CRE removed (could not confirm Auto) - External I/O table removed (covered in another document) - Added clarifications on Central Inverter testing requirements
2.3	November 20, 2020	- Added ABB and SMA solar inverter models to Approved - Added Ingeteam to provisional
2.2	September 16, 2020	- Updated Partner Portal document links - Added Chint SCA50/60KTL to Approved - Added SMA CORE2 to Approved - Updated Huawei Smart Logger models - Updated SolarEdge CCG connection
2.1	May 20, 2020	- Changed column heading - Added SolarEdge communication notes - Added ABB central inverter - Edited Modbus gateway requirements - Added Chint CPS and Solectria PVI inverters



Revision	Date	Description
		• Added DEIF AGC-4 • Added information about Dead bus paralleling • Edited External I/O section • Updated Islanding Controller Specification link in Reference Documents • Added Megapack document to Reference Documents section
2.0	March 13, 2020	• Added table header coloring to more clearly differentiate between Approved and Provisional devices • Moved Huawei US models to Approved • Added SolarEdge IEC models to Provisional • Moved ABB TRIO-TM models to Approved • Added Solectria XGI 1500 models to Provisional • Changed GE product names to Emerson
1.5	01-16-2020	Added SolarEdge US models to Provisional list
1.4.2	10-10-2019	Updated model names of solar inverters. Added new solar inverters to provisional category. Added provisional Generator Controllers. Added External I/O section.
1.4.1	04-04-2019	Changed title to Industrial Energy Approved Vendors List. Added initials column to Revision Log.
1.4.0	03-29-2019	Removed references to microgrid. Added list of PV inverters whose specifications have been reviewed. Updated Generator Controller model to match the tested. Removed CAT EMCP4.4. Added Meteorological sensor. Changed "Multiple inverter manager" to "PV inverter manager." Added Tesla Header. Fixed inconsistencies in table formatting.
1.30	01-11-2019	Pluralized all section titles. Inserted Table references. Added front matter and Reference Documents sections, Updated terminologies, Added SMA STP50-40 and Eco 25 to the Solar PV inverters section. Added DEIF AGC 242 and Deep Sea's droop option. Removed meters table. Generalized document language (and Title) to apply across all Industrial Energy Storage products. Added content on "provisional" devices. Updated Revision number to match standard.
1.2	08-14-2018	Updated Multiple Inverter Manager device and number.
1.1	03-10-2019	Updated PV inverter and inverter manager sections.
1.0	03-06-2018	Initial Release



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