




POWERWALL 3 METERING COMPATIBILITY GUIDE



Table 1. Metering Overview for Powerwall 3 Systems





Metering Option	Site (Service ≤ 100A)	Powerwall 3 Solar	AC-Coupled Solar (≤ 100A)
Powerwall 3	N/A	Yes (no installation / configuration required)	N/A
Backup Gateway 2 Meter X	Yes	N/A	N/A
Backup Gateway 2 Meter Y + Tesla CT(s)	Yes	N/A (not needed)	Yes

 **NOTE:** Neurio remote energy meters are not compatible with Powerwall 3.



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Backup Gateway 2 Meters

Backup Gateway Compatibility	Backup Gateway 2.0 (1152100-03-E - H) Backup Gateway 2.1 (1152100-13-J)	Backup Gateway 2.0 (1152100-03-E - H)	Backup Gateway 2.1 (1152100-13-J)
Meter	Internal Primary Meter (Meter X) 	Internal Auxiliary Meter (Meter Y) 	Internal Auxiliary Meter (Meter Y)
Compatible CTs	N/A (captive CTs)	Tesla 100 A CTs (Tesla P/N 1467316-00-A) 	Tesla 100 A CTs (Tesla P/N 1467316-00-B) 
NOTE: As indicated above, each CT is only compatible with the meter it is designed to be paired with. CTs cannot be used with any meter other than the one they are intended for.			
CT Capacity	Gateway 2 Meter X: 80 A per phase / 100 A if using only one phase	Gateway 2.0 Meter Y: 100 A	Gateway 2.1 Meter Y: 100 A
Possible Monitoring Assignments	Site, Conductor, None	Solar, Site, None	Solar, Site, None
Connection Methods (Meter to Gateway)	Hardwired directly to Gateway 2 Clamshell	CTs connect directly to Gateway 2 Clamshell	CTs connect directly to Gateway 2 Clamshell
Voltage Reference	Identified and labeled within the Gateway 2	Identified and labeled within the Gateway 2. Voltage reference can be confirmed / referenced to the labeled Gateway terminals <ul style="list-style-type: none"> • CT 1 = L1 • CT 2 = L2 	Identified and labeled within the Gateway 2. Voltage reference can be confirmed / referenced to the labeled Gateway terminals <ul style="list-style-type: none"> • CT 1 = L1 • CT 2 = L2



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Backup Gateway Compatibility	Backup Gateway 2.0 (1152100-03-E - H) Backup Gateway 2.1 (1152100-13-J)	Backup Gateway 2.0 (1152100-03-E - H)	Backup Gateway 2.1 (1152100-13-J)
		• CT 3 = L3	• CT 3 = L3
Extension Length	N/A (fixed position in Gateway)	Premade Tesla 100 A CT extension (Tesla P/N 1467274-00-A): 3 m 0.5 mm ² or larger twisted pair conductors: max 100 m	Premade Tesla 100 A CT extension (Tesla P/N 1467274-00-B): 3 m 0.5 mm ² or larger twisted pair conductors: max 100 m
Splitting CTs	N/A	N/A (cannot be split / paralleled) One 100 A CT per terminal	N/A (cannot be split / paralleled) One 100 A CT per terminal
Optional Accessories	N/A	N/A	N/A



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Current Transformer Specifications

WARNING: Before installing, disconnecting, and/or adjusting CTs, ensure the circuits being measured are not energized and the system is completely powered down. Failure to de-energize the system may compromise operator and equipment safety. Additionally, plug the CT into the terminal BEFORE clamping it around the conductor to be measured.

Tesla 100 A CT Specifications

Electrical Specifications

Max Primary Current	120 A
Operating Frequency	50 Hz – 60 Hz
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Max Operating Humidity (with condensation)	RH 95%
Lead Length	800 mm
Cable Type	Twisted leads
Cable Ratings	600 V, 125°C
Cable Gauge	22 AWG

Mechanical Specifications

