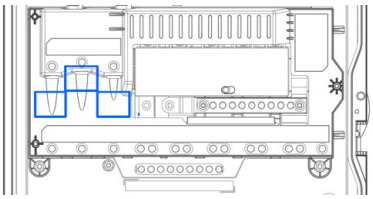
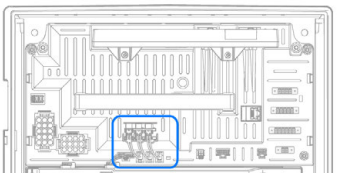
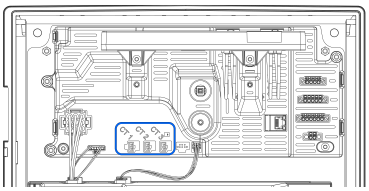
POWERWALL 2 AC METERING COMPATIBILITY GUIDE

Backup Gateway 2 Meters

Backup Gateway Compatiblity	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

Backup Gateway Compatiblity	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)
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 • CT 1 = L1 • CT 2 = L2 • CT 3 = L3	Identified and labeled within the Gateway 2. Voltage reference can be confirmed / referenced to the labeled Gateway terminals • CT 1 = L1 • CT 2 = L2 • 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-A): 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

Neurio Remote Energy Meters

	Neurio W1 Meter	Neurio W2 Meter
Meter	Neurio W1 Meter Kit with (2) 200 A CTs (Tesla P/N 1112484-02-x) 	Neurio W2 Meter Kit with (2) 200 A CTs (Tesla P/N 1112484-04-x) 
Compatible CTs	Neurio W1 200 A CTs (Tesla P/N 1112477-00-x) or 800 A CTs (Tesla P/N 1447689-00-x) 	Neurio W2 200 A CTs (Tesla P/N 1622284-00-x) 

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	Standard CTs: 200 A, 400 A when paralleled 800 A CTs: 800 A, 1100 A when paralleled	Standard CTs: 200 A
Possible Monitoring Assignments	Site, Solar, Solar CTx2, Conductor, Load, Generator, None	Site, Solar, Solar CTx2, Conductor, Load, Generator, None
Connection Methods (Meter to Gateway)	2.4GHz Wi-Fi (preferred)[1] Hardwired RS-485 (Tesla P/N 1133339-00-x) • Max distance 164 ft / 50 m • 24-18 AWG (0.2-1.5mm^2) shielded twisted pair with drain wire	2.4GHz Wi-Fi[1]
Voltage Reference	16 A breaker required (2 pole or single pole, depending on regional requirements) L1 = Brown, L2 =Black, L3 = Gray, Neutral = Blue Voltage reference can be confirmed / referenced to the labeled Neurio housing • CT 1 / A = L1 • CT 2 / B = L2 • CT 3 / C = L2 • CT 4 / A = L1	16 A breaker required (2 pole or single pole, depending on regional requirements) L1 = Brown, L2 =Black, L3 = Gray, Neutral = Blue Voltage reference can be confirmed / referenced to the labeled Neurio housing • CT 1 / A = L1 • CT 2 / B = L2 • CT 3 / C = L2 • CT 4 / A = L1

	Neurio W1 Meter	Neurio W2 Meter
CT Extension Length	Premade Neurio CT extension (Tesla P/N 1125547-00-x): 10 ft / 3 m 24-18 AWG (0.2-1.5 mm^2) shielded twisted pair with drain wire: max 50 ft / 15 m	Premade Neurio CT extension (Tesla P/N 1622289-00-x): 11 ft / 3.3 m
Splitting CTs	Factory Y-splitters available (Tesla P/N 1129625-00-x) Wire splicing an option with minimum 30 A / 300 V rated connector No more than 4 CTs per port No more than 1100 A monitored per CT port	Factory Y-splitters available (Tesla P/N 1622286-00-x)
Optional Accessories	Optional RS-485 meter pigtail for hardwired connection (Tesla P/N 1133339-00-A) Optional 800 A CTs (Tesla # 1447689-00-x)	N/A
[1]See *Advanced meter connection using homeowner Wi-Fi* for advanced instructions.		

NOTE: The Neurio Remote Energy Meters are compatible with Backup Gateway 1 and Backup Gateway 2. See the Powerwall 2 AC Installation Manual for details on how to install a Neurio meter with a Powerwall 2 system.

Current Transformer Specifications

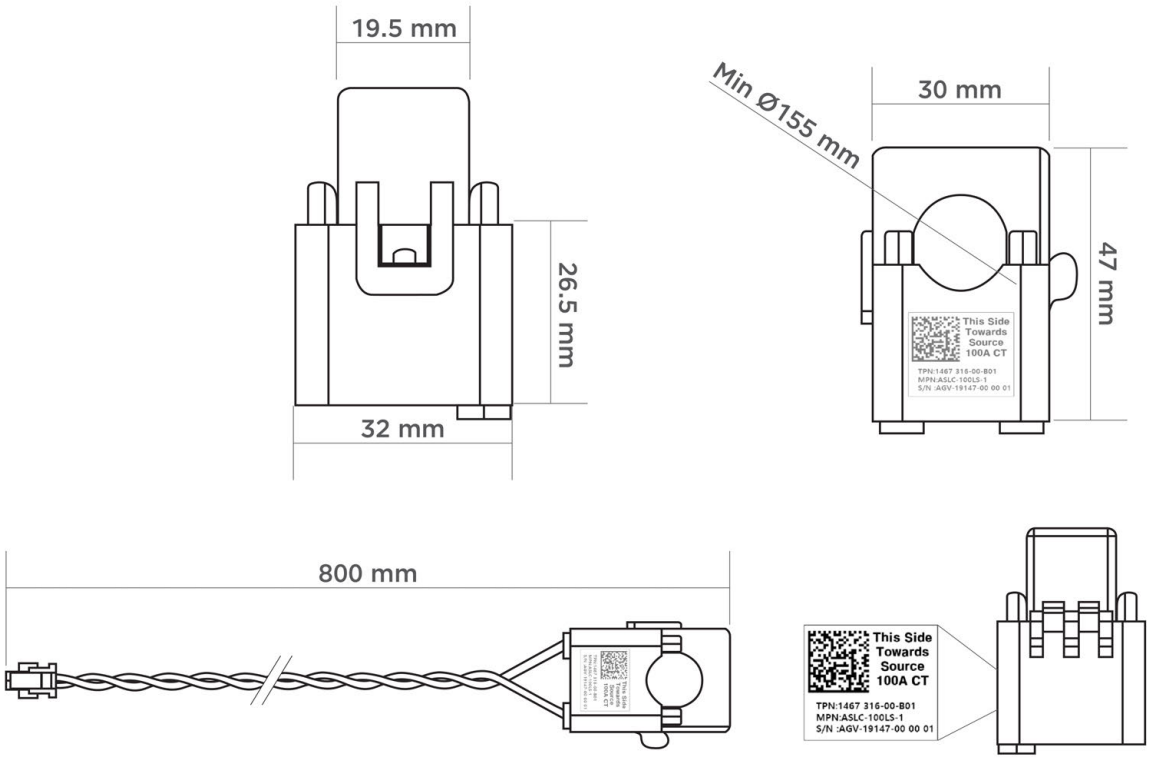
WARNING: Before installing, disconnecting, and/or adjusting CTs, ensure the circuits being measured are not energized and the system is completely powered down. Failure to de-energize the system may compromise operator and equipment safety. Additionally, plug the CT into the terminal BEFORE clamping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

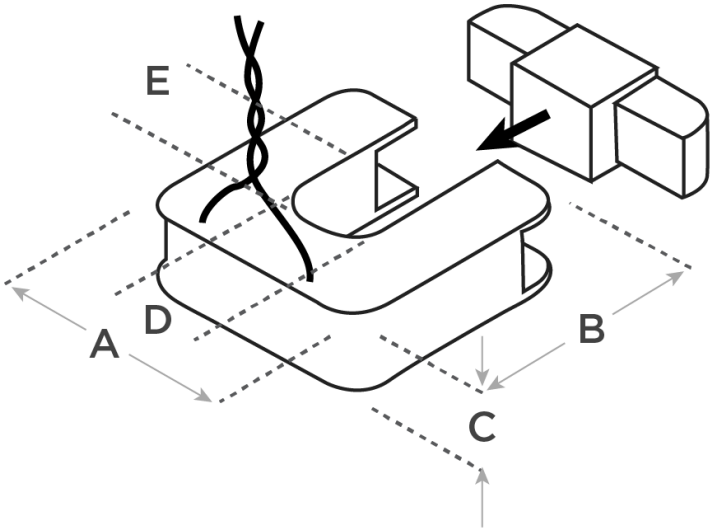


Neurio W1 200 A CT Specifications

Electrical Specifications

Max Primary Current	264 A
Operating Frequency	50 Hz – 60 Hz
Operating Temperature Range	-25°C to 85°C (32°F to 149°F)
Max Operating Humidity (with condensation)	RH 100%
Lead Length	1220 mm +/- 35 mm
Cable Type	Twisted leads
Cable Ratings	UL 1015, 600 V
Cable Gauge	22 AWG

Mechanical Specifications



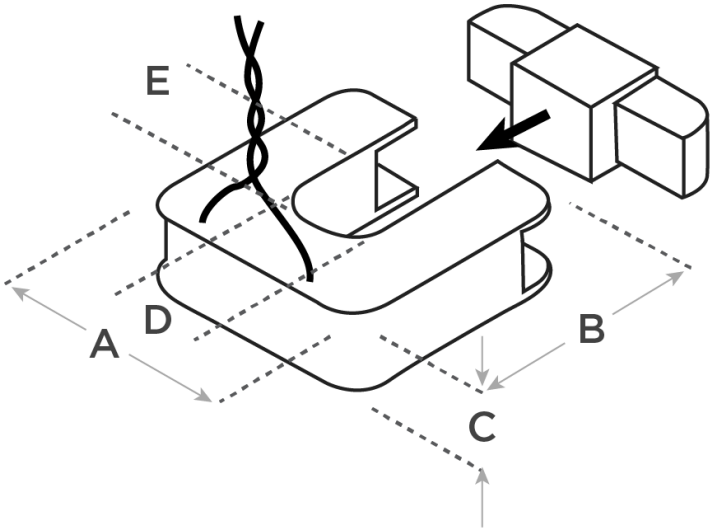
Dimension	Value (mm)
A	52
B	56.5
C	12
D	20
E	20

Neurio W1 800 A CT Specifications

Electrical Specifications

Max Primary Current	800 A
Operating Frequency	50 Hz – 60 Hz
Operating Temperature Range	-25°C to 85°C (-13°F to 185°F)
Max Operating Humidity (with condensation)	RH 100%
Lead Length	1220 mm +/- 20 mm
Cable Type	Twisted leads
Cable Ratings	UL 1015, 600 V
Cable Gauge	22 AWG

Mechanical Specifications



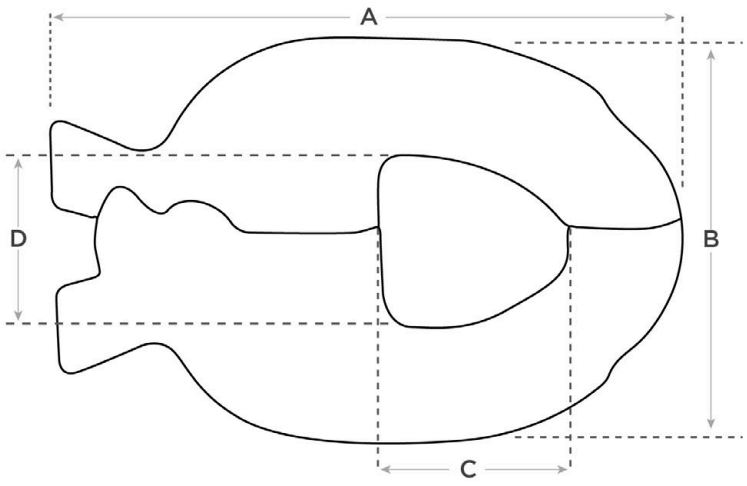
Dimension	Value (mm)
A	82.5
B	85.1
C	25.6
D	31.8
E	31.8

Neurio W2 200 A CT Specifications

Electrical Specifications

Max Primary Current	200 A
Operating Frequency	50 Hz – 60 Hz
Operating Temperature Range	-36°C to 65°C (-32°F to 149°F)
Lead Length	1200 mm

Mechanical Specifications



Dimension	Value (mm)
A	75.4
B	48.5
C	24.4
D	21.6
Depth	12