				Powerwall 2 A	C Compatibility				
Region	Mainland USA		Hawaii		US & Puerto Rico		Puerte	Puerto Rico	
Gateway Type	Backup Gateway 1		Backup Gateway 1		Backup Gateway 1		Backup Gateway 1		
Service Type									
Site type	Residential		Residential		Residential		Residential		
Service type	Split Phase - 240 V / 120 V		Split Phase - 240 V / 120 V		Off-Grid		Split Phase - 240 V / 120 V		
Available Grid Codes (additional regional variations)	IEEE1547, UL1741SA		HI14H		Special Grid Settings		IEEE1547		
Network Type	TN-C-S (no neutral break)		TN-C-S (no neutral break)		TN-C-S (no neutral break)		TN-C-S (no neutral break)		
Site Configuration									
Maximum number of Gateways	Unlimited		Unlimited		Unlimited		Unlimited		
Maximum Powerwalls per Gateway	10		10		10				
Maximum non-backup loads supported	Unlimited (local utility limits may apply)		Unlimited (local utility limits may apply)		N/A 5 kW per Powerwall		5 kW per Powerwall		
Max arid impedance (I -N)									
Formula	0.8 Ω / Number of Powerwalls per Site When installing 5 or more Powerwall units, measure line impedance per the requirements in the Multi-Powerwall Installation application note		<u>0.8 Ω / Number of Powerwalls per Site</u> When installing 5 or more Powerwall units, measure line impedance per the requirements in the Multi-Powerwall Installation application note		N/A		0.8 Ω / Number of Powerwalls per Site When installing 5 or more Powerwall units, measure line impedance per the requirements in the Multi-Powerwall Installation application note		
Load Limits									
Maximum loads connected to backup circuit (or through Gateway)	200 A		200 A		200 A		200) A	
Maximum current through Neurio CTs	800 A ¹		800 A ¹		800 A ¹		800 A ¹		
Largest single load in backup circuit	30 A per Powerwall		30 A per Powerwall		30 A per Powerwall		30 A per Powerwall		
Backup Large motor loads supported	Requires min 2 Powerwalls to support (depending on equipment)		Requires min 2 Powerwalls to support (depending on equipment)		Requires min 2 Powerwalls to support (depending on equipment)		Requires min 2 Powerwalls to support (depending on equipment)		
(HVAC, heat pump, well or pool pump) Single/split phase/three phase backup loads	120 / 240 V loads (Single / Split Phase)		120 / 240 V loads (Single / Split Phase)		120 / 240 V loads (Single / Split Phase)		120 / 240 V loads (Single / Split Phase)		
Backup generator compatibility									
Asynchronous backup with Generator with Downstream ATS / MTS	Yes		Yes		Yes		Yes		
Generator charging of Powerwall	No		No		Yes, with compatible generator		No		
Upstream Generator and Upstream Utility	No		No		Upstream generator only		N	lo	
Automatic generator control	Not vet available		Not yet available		Yes, with compatible generator		Not yet available		
Solar competibility	,, ,				· · · · · · · · · · · · · · · · · · ·				
Solar compatibility									
Recommended solar inverters	SMA, SolarEdge, Fronius, Enphase, Delta, ABB		SolarEdge		Delta, SMA (Sunny Boy SB Series), Enphase (IQ+ Series)		Enphase, SMA		
Maximum solar size outside of backup circuit	Unlimited (local utility limits may apply)		Unlimited (local utility limits may apply)				Unlimited (local utility limits may apply)		
Modes of operation	With Solar Without Solar		With Solar Without Solar		5 KW AC of solar per Powerwall With Solar Without Solar		5 KW AC of solar per Powerwall With Solar Without Solar		
						Without Coldi			
Home Energy monitoring	Powerwall, Solar, Grid, Home	Powerwall, Grid, Home	Powerwall, Solar, Grid, Home	Powerwall, Grid, Home	Powerwall, Solar, Generator, Home	N/A	Powerwall, Solar, Grid, Home	Powerwall, Grid, Home	
Self-Powered mode	Yes ³	N/A Ves ³	Yes ³	N/A Vos ³	Yes N/A	N/A N/A	Yes ³	N/A Vos ³	
Configurable backup reserve		165 No. (00/ 4000/) ³				N/A			
while in other modes	Yes (0% - 100%)	Yes (0% - 100%)	Yes (0% - 100%)	Yes (0% - 100%)			Yes (0% - 100%)	Yes (0% - 100%)	
Grid charging for backup	N/A	Yes N/A	N/A	N/A N/A	N/A N/A	N/A N/A	Yes	Yes N/A	
Time-Based Control mode	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	
Powerwall grid charging	N/A	Yes	N/A	Yes	N/A	N/A	N/A	Yes	
Powerwall grid export	N/A ³	N/A ³	N/A ³	N/A ³	N/A	N/A	N/A ³	N/A ³	
Special modes of operation	With Solar	Without Solar	With Solar	Without Solar	With Solar	Without Solar	With Solar	Without Solar	
Preconditioning Preventative maintenance	Yes	Yes	Yes	Yes	No	N/A	Yes	Yes	
on thermal control system	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	
Storm watch	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	
		5		5	Network een	an atik la		5	
Wind power	Yes Ves ⁵		Yes ⁵		Not yet compatible		Yes ⁵		
Powerwall 1	Not yet compatible		Not yet compatible		Not yet compatible		Not yet compatible		
Existing battery storage systems	Not yet compatible		Not yet compatible		Not yet compatible		Not yet compatible		
Combined heat and power systems	Yes ⁵		Yes ⁵		Not yet compatible		Yes ⁵		
to increase solar self consumption)	Not yet compatible ¹ 200A Neurio CTs are included in the Backup Gateway enclosure. 800A CTs		Not yet compatible are available for larger service sizes.		Not yet compatible		Not yet compatible		
	² A limit of 5kW of solar per Powerwall is recommended for off-grid sites or sites that frequently operate off-grid, as larger PV systems are more likely to overload the charge capacity when off-grid.								
	³ Some aggregation programs and restricted use applications do not conform exactly to the configuration described here.								

⁴Solar charging during an outage is unavailable for any site with a solar inverter configured for zero export.

⁵Must be installed outside the backup circuit. Will be displayed in the customer app as solar generation. Powerwall warranty will be subject to "any other application or combination of applications" when paired with other non-solar renewables.

