$T \equiv 5 L F$

N A

Bracero Residence 20606 Chatfield Bend Way, Katy, TX 77449

Solar

Quantity: 24 Panels

System Size: Medium (7.56 kW)
Est. Annual Production: 9775 kWh

Powerwall

Quantity: 2 Powerwalls

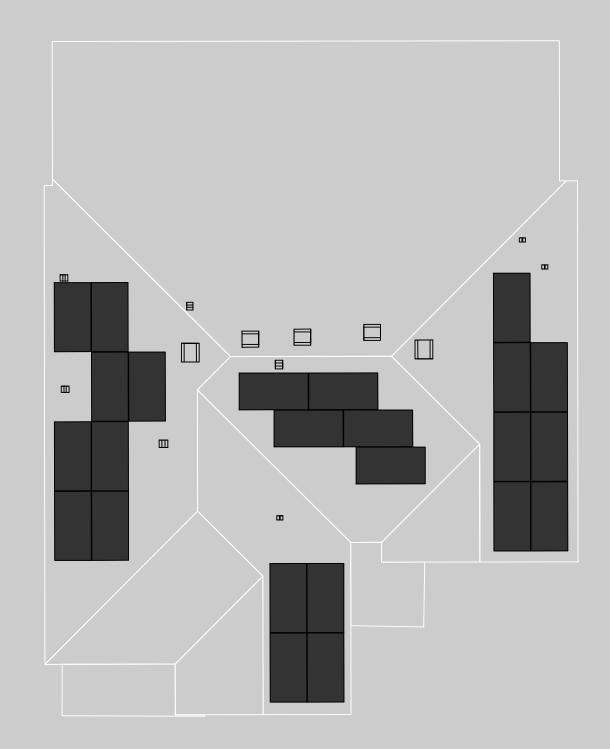
Back up loads to be determined when electrical photos

are submitted.

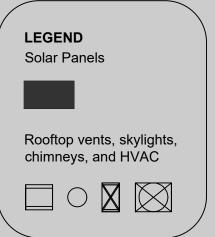
Equipment Location

Your solar inverter(s), Energy Gateway, Powerwall(s) and any additional equipment will be installed near your utility electric meter.

At the beginning of installation, the Tesla crew lead will discuss with you the exact location based on your preference and install feasibility.



Front Of House



86



SolarEdge Single Phase Inverters

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US



Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Extremely small
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- Outdoor and indoor installation

SOUTH AFRICA-POLAND-CZECH REPUBLIC

- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)
- Simple configuration and commissioning with smartphone app and built in Wi-Fi (SE10000H-US, SE11400H-US)

USA-CANADA-GERMANY-UK-ITALY-THE NETHERLANDS-JAPAN-CHINA-AUSTRALIA-ISRAEL-FRANCE-BELGIUM-TURKEY-INDIA-BULGARIA-ROMANIA-HUNGARY-SWEDEN-



www.solaredge.us







Single Phase Inverters for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US

OUTDUT	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
OUTPUT	2000	3800 @240V	F000	6000	7000	10000	11400	1/0
Rated AC Power Output	3000	3300 @208V	5000	6000	7600	10000	11400	VA
Max. AC Power Output	3000	3800 @240V 3300 @208V	5000	6000	7600	10000	11400	VA
AC Output Voltage MinNom	_	/	/	_	_	_	_	Vac
Max. (183 - 208 - 229) AC Output Voltage MinNom	J		/		<i>J</i>			Vac
Max. (211 - 240 - 264) AC Frequency (Nominal)	· · · · · · · · · · · · · · · · · · ·	ļ		59.3 - 60 - 60.5 ⁽¹⁾		l	l	Hz
Maximum Continuous Output				39.3 - 60 - 60.3	Í · · · · · · · · · · · · · · · · · · ·	1	1	
Current 208V	-	16	24	-	-	-	-	A
Maximum Continuous Output								
Current 240V	12.5	16	21	25	32	42	47.5	А
GFDI Threshold				1				A
Utility Monitoring, Islanding				•	•	•		
Protection, Country Configurable				Yes				
Thresholds								
INPUT								
Maximum DC Power	4650	5900	7750	9300	11800	15500	17670	W
Transformer-less, Ungrounded		,		Yes				
Maximum Input Voltage				480	,			Vd
Nominal DC Input Voltage		,		,		400	,	Vd
Maximum Input Current 208V		9	13.5	-				Ad
Maximum Input Current 240V	8.5	10.5	13.5	16.5	20	27	30.5	Ad
Max. Input Short Circuit Current				45				Ado
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection		,		600kΩ Sensitivity				
Maximum Inverter Efficiency	99				9.2			%
CEC Weighted Efficiency				99				%
Nighttime Power Consumption				< 2.5				W
ADDITIONAL FEATURES								
Supported Communication		RS	485 Ethernet 7	ZigBee (optional)	Cellular (ontion	nal)		
Interfaces								
Revenue Grade Data, ANSI C12.20				Optional ⁽²⁾				
Rapid Shutdown - NEC 2014 and	Automatic Rapid Shutdown upon AC Grid Disconnect							
2017 690.12								
STANDARD COMPLIANCE								
Safety		UL1/41, UL1/4				ing to T.I.L. M-07		
Grid Connection Standards				47, Rule 21, Rule				
Emissions			F	CC Part 15 Class	В			
INSTALLATION SPECIFICATIONS								
AC Output Conduit Size / AWG			3/4"	minimum / 20-4	AWG			
Range DC Input Conduit Size / # of Strings						2///" minimum	1 / 1-3 strings /	
		3/4" minimu	um / 1-2 strings	/ 14-6 AWG			AWG	
/ AWG Range						21.3 x 14.6	21.3 x 14.6	
Dimensions with Safety Switch		17 7 v 1/l	6 x 6.8 / 450 x 3	870 x 17/		x 7.7 / 540 x	x 7.3 / 540 x	in / m
(HxWxD)		17.7 X 14.	0 A 0.0 / 450 X 3)/ U X 1/4		370 x 195	370 x 185	"" / "
Weight with Safety Switch	22 ,	/ 10	25.1 / 11.4	26.2	/ 11.9	38.8 / 17.6	40.1 / 18.2	lb / l
Noise		< 2	45		Natural	<50 ivection and inter	enal fan Jusar	dB/
Cooling		Natural Co	onvection		inatural cor	replaceable)	mai tan (user	
Operating Temperature Range Protection Rating	-13 to +140 / -25 to +60 ⁽⁴⁾ (-40°F / -40°C option) ⁽⁵⁾ NEMA 3R (Inverter with Safety Switch)						°F /_°	



are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned her are trademarks of their respective owners. Date: 11/2017/V01/ENG NAM. Subject to change without notice.

⁽¹⁾ For other regional settings please contact SolarEdge support (2) Revenue grade inverter P/N: SExxxxH-US000NNC2 (4) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf (5) -40 version P/N: SExxxxH-US000NNU4



The new Q.PEAK DUO BLK-G5/SC solar module from Q CELLS impresses thanks to innovative Q.ANTUM DUO Technology, which enables particularly high performance on a small surface, and a black Zep CompatibleTM frame design for improved aesthetics, easy installation and increased safety. Q.ANTUM's world-record-holding cell concept has now been combined with state-of-the-art circuitry half cells and a six-busbar design, thus achieving outstanding performance under real conditions - both with low-intensity solar radiation as well as on hot, clear summer days.



Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.3%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID and Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa) regarding IEC.



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance guarantee².



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.











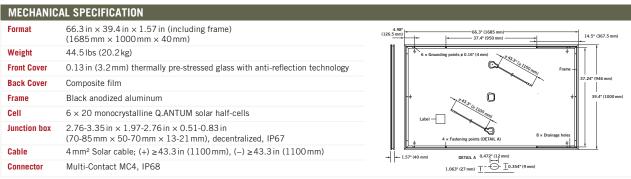




- ¹ APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V, 168 h)
- See data sheet on rear for further information.







	ECTRICAL CHARACTERISTICS					
	WER CLASS			310	315	320
MIN	NIMUM PERFORMANCE AT STANDARD TEST (CONDITIONS, STC ¹	(POWER TOLER	ANCE +5 W / -0 W)		
	Power at MPP ²	P _{MPP}	[W]	310	315	320
	Short Circuit Current	I _{sc}	[A]	9.83	9.89	9.94
mul	Open Circuit Voltage*	V _{oc}	[V]	40.02	40.29	40.56
Minimum	Current at MPP*	I _{MPP}	[A]	9.36	9.41	9.47
	Voltage at MPP*	V_{MPP}	[V]	33.12	33.46	33.80
	Efficiency ²	η	[%]	≥18.4	≥18.7	≥19.0
MIN	NIMUM PERFORMANCE AT NORMAL OPERATI	NG CONDITIONS, N	10C3			
	Power at MPP ²	P _{MPP}	[W]	229.7	233.5	237.2
Ε	Short Circuit Current	I _{sc}	[A]	7.93	7.97	8.02
Minimum	Open Circuit Voltage*	V _{oc}	[V]	37.43	37.69	37.94
Ξ	Current at MPP*	I _{MPP}	[A]	7.36	7.41	7.45
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	31.20	31.52	31.84
1100	OW/m ² , 25 °C, spectrum AM 1.5 G ² Measurem	nent tolerances STC ±	3%; NOC ±5%	³ 800 W/m ² , NOCT, spectrum AM 1.5 G	* typical values, actual values may differ	
Q C	ELLS PERFORMANCE WARRANTY			ı	PERFORMANCE AT LOW IRRADIANCE	
RELATIVE EFFICIENCY NOMINAL POWER [%]	100 98 — Q CELLS 98 — Industry standard for linear warranties' 95 — Industry standard for freed warranties' 95	Thereafter max At least 93.1% At least 85% o	. 0.54% degrad	during first year. ation per year. er up to 10 years. up to 25 years.	110 Le HELL LA L	

0 5 10 Standard terms of guarantee for the with the highest production capacity			25 YEARS				nodule performa on to STC cond		ow irradiance conditions in c, 1000 W/m²).
TEMPERATURE COEFFICI	ENTS								
Temperature Coefficient	of I _{sc}		α	[%/K]	+0.04	Temperature Coefficient of \mathbf{V}_{oc}	β	[%/K]	-0.28
Temperature Coefficient	of P _{MPP}		γ	[%/K]	-0.37	Normal Operating Cell Temperature	NOCT	[°F]	113 ±5.4 (45 ±3°C)
PROPERTIES FOR S	SYSTEM	I DESIG	N						
Maximum System Voltag	e V	Г\	/1	1000 (IEC) / 1000 (UL)	Safety Class		H	

Full warranties in accordance with the warranty terms of the Q CELLS sales organization of your

QUALIFICATIONS AND CER	RTIFICATES		PACKAGING INFORMATION	
Design load, pull (UL) ²	[lbs/ft²]	50 (2400 Pa)	² see installation manual	
Design load, push (UL) ²	[lbs/ft²]	50 (2400 Pa)	Permitted module temperature on continuous duty	-40° F up to $+185^{\circ}$ F (-40° C up to $+85^{\circ}$ C)
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C (IEC) / TYPE 1 (UL)
Maximum System Voltage V _{sys}	[V]	1000 (IEC) / 1000 (UL)	Safety Class	II

QUALIFICATIONS AND CERTIFICATES	PACKAGING INFORMATION
UL 1703; CE-compliant; IEC 61215 (Ed. 2); IEC 61730 (Ed. 1), application class A	Number of Modules per Pallet 26
TEC 61213 (Ed. 2); TEC 61730 (Ed. 1), application class A	Number of Pallets per 53' Trailer 32
C C C SCOMPATION	Number of Pallets per 40' High Cube Container 26
CE CONTROL US CONTROL	Pallet Dimensions (L \times W \times H)69.3 in \times 45.3 in \times 46.9 in(1760 mm \times 1150 mm \times 1190 mm)
(ECP4 2-4.1)	Pallet Weight 1268 lbs (575 kg)

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

lanwha Q CELLS America Inc.

300 Spectrum Center Drive, Suite 1250, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us

POWERWALL

Tesla Powerwall is a fully-integrated AC battery system for residential or light commercial use. Its rechargeable lithium-ion battery pack provides energy storage for solar self-consumption, time-based control, and backup.

Powerwall's electrical interface provides a simple connection to any home or building. Its revolutionary compact design achieves market-leading energy density and is easy to install, enabling owners to quickly realize the benefits of reliable, clean power.



PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	120/240 V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Total Energy ¹	14 kWh
Usable Energy ¹	13.5 kWh
Real Power, max continuous ²	5 kW (charge and discharge)
Real Power, peak (10s, off-grid/backup) ²	7 kW (charge and discharge)
Apparent Power, max continuous	5.8 kVA (charge and discharge)
Apparent Power, peak (10s, off-grid/backup)	7.2 kVA (charge and discharge)
Maximum Supply Fault Current	10 kA
Maximum Output Fault Current	32 A
Overcurrent Protection Device	30 A
Imbalance for Split-Phase Loads	100%
Power Factor Output Range	+/- 1.0 adjustable
Power Factor Range (full-rated power)	+/- 0.85
Internal Battery DC Voltage	50 V
Round Trip Efficiency ^{1,3}	90%
Warranty	10 years

¹Values provided for 25°C (77°F), 3.3 kW charge/discharge power.

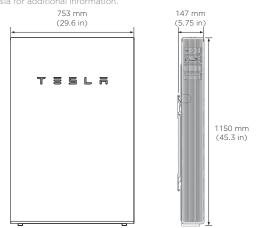
COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, UL 1973, UL 9540, IEEE 1547, UN 38.3
Grid Connection	Worldwide Compatibility
Emissions	FCC Part 15 Class B, ICES 003
Environmental	RoHS Directive 2011/65/EU
Seismic	AC156, IEEE 693-2005 (high)

MECHANICAL SPECIFICATIONS

Dimensions ¹	1150 mm x 753 mm x 147 mm (45.3 in x 29.6 in x 5.75 in)
Weight ¹	114 kg (251.3 lbs)
Mounting options	Floor or wall mount

 $^{\rm 1}{\rm Dimensions}$ and weight differ slightly if manufactured before March 2019. Contact Tesla for additional information.



ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Recommended Temperature	0°C to 30°C (32°F to 86°F)
Operating Humidity (RH)	Up to 100%, condensing
Storage Conditions	-20°C to 30°C (-4°F to 86°F) Up to 95% RH, non-condensing State of Energy (SoE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
Wet Location Rating	Yes
Noise Level @ 1m	< 40 dBA at 30°C (86°F)

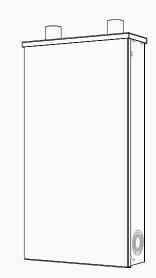
POWERWALL

Backup Gateway

The Backup Gateway for Tesla Powerwall provides energy management and monitoring for solar self-consumption, time-based control, and backup.

The Backup Gateway controls connection to the grid, automatically detecting outages and providing a seamless transition to backup power. When equipped with a circuit breaker, the Backup Gateway can be installed at the service entrance.

The Backup Gateway communicates directly with Powerwall, allowing you to monitor energy use and manage backup energy reserves from any mobile device with the Tesla app.



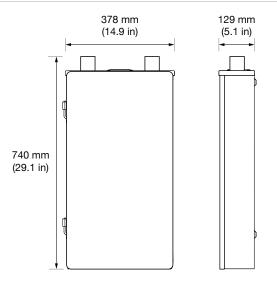
PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	230 V, 120/240 V
Feed-In Type	Single & Split Phase
Grid Frequency	50 and 60 Hz
Disconnect Current	200 A
Maximum Input Short Circuit Current	10 kA
Overcurrent Protection Device ¹	100-200 A; Service Entrance Rated
Overvoltage Category	Category IV
AC Meter	Revenue grade (+/- 1%)
Connectivity	Ethernet, Cellular (3G)2, Wi-Fi
User Interface	Tesla App
Operating Modes	Support for solar self-consumption, time-based control, and backup
Backup Operation	Automatic disconnect for seamless backup transition
Modularity	Supports up to 10 AC-coupled Powerwalls
Warranty	10 years

 $^{^{\}mbox{\scriptsize 1}}\mbox{Circuit}$ breaker required for installation at service entrance.

MECHANICAL SPECIFICATIONS

Dimensions	740 mm x 378 mm x 129 mm (29.1 in x 14.9 in x 5.1 in)
Weight	16.4 kg (36 lbs)
Mounting options	Wall mount



COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, IEC 62109-1, CSA C22.2.107.1
Grid Connection	Worldwide Compatibility
Emissions	FCC Part 15 Class B, ICES 003, IEC 61000-6-3, EN 55024, EN 301489-1, EN 301489-7, EN 301489-17
Environmental	RoHS Directive 2011/65/EU, WEEE Directive 2012/19/EU, Battery Directive 2006/66/EC REACH Regulation
Seismic	AC156, IEEE 693-2005 (high)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	–20°C to 50°C (–4°F to 122°F)
Operating Humidity (RH)	Up to 100%, condensing
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R
Ingress Rating	IP44

T = 5 L Fi 2018-03-22 TESLA.COM/ENERGY T = 5 L Fi 2018-03-22 TESLA.COM/ENERGY



²In Backup mode, grid charge power is limited to 3.3 kW.

³AC to battery to AC, at beginning of life.

²Cellular connectivity subject to network operator service coverage and signal strength.

Customer Layout

Final Audit Report 2020-04-28

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