Technical Specifications

EG4 Homestead 60

System

Standard Package	
PV nameplate	14.40 kW DC (24 × 600 W)
Solar Skids / Racks	2 / 4
ESS	Factory-integrated into one rack

Energy Storage System (ESS)

System	
Nominal AC Voltage	120/240 VAC
Frequency	60 Hz
Max. AC Continuous Power (for charging battery)	16 kW
Continuous Output (w/ Battery Only)	15 kW (62.5 A @240 V)
Continuous Output (w/ PV and Battery)	18 kW (75 A @240 V)
Peak Surge Power	16kW<Load<20kW for 1 min 20kW<Load<24kW for 10 Seconds Load>24kW for 5 Seconds
Max. Gen Input Current	80 A
Max. AC Passthrough Bypass	100 A
Max. AC Output Current	75 A (PV and Battery)
LRA (A)	160 A (1 sec)
Usable Capacity	60 kWh

PV Input Data	
Number of MPPTs	3
Inputs Per MPPT	2/2/1
Max. Usable Input Current (PV1, PV2, PV3)	34 A / 34 A / 17 A
Max. Short Circuit Input Current (PV1, PV2, PV3)	40 A / 40 A / 19 A
PV Input Voltage Range	100 – 550 VDC
Unit Startup Voltage	150 VDC
MPPT Operating Voltage Range	120 – 440 VDC
Full Power MPPT Voltage Range	250 – 440 VDC
Nominal MPPT Voltage	360 VDC
Max. Utilized PV Power	26 kW

Mechanical & Environmental	
Dimensions (H × W × D)	20.82 × 36.81 × 97.86 in. (529 × 935 × 2486 mm)
Weight	1584 lbs. (718 kg)
Enclosure Rating	NEMA 3R
Relative Humidity	5 – 80% relative humidity
Operating Altitude	<6562 ft. (2000 m)
Operating Temperature Range*	-13°F – 104°F (-25°C – 40°C)
Storage Temperature Range	-4°F – 113°F (-20°C – 45°C)

*Product warranty is based on cell temperature only. Unit is thermally restricted during operation to 122°F.

Certifications (pending)	
	Arc-Fault Circuit Interrupter (AFCI) NEC 2020:690.11/UL 1699B
	CSA 22.2#107.1+U1, CSA 22.2#330, CSA C22.3#9
	IEEE 1547.1:2020 / IEEE 1547:2018 / IEEE 1547a:2020
	California Rule 21 Phase I, II, III (with compatible gateway)
	Hawaii Rule 14H
	FCC Part 15, Class B / CAN ICES-003(B) / NMB-003(B)
	UN 38.3
	UL 1741/SA/SB; UL 3141; UL 1973; UL 9540; UL 9540A

Solar Rack

PV Module	
Model	CWT600-144TNB10
Rated power	600 W
Vmp / Imp	43.75 V / 13.72 A
Voc / Isc	52.38 V / 14.42 A
Temperature coefficient (Pmax)	-0.30%/°C
Temperature coefficient (Voc)	0.26%/°C
Maximum system voltage	1500 VDC
Maximum series fuse	25 A
Dimensions	2278 × 1134 × 35 mm
Weight	72.8 lbs. (33 kg)
Module test load	2400 Pa wind / 5400 Pa snow

Electrical	
Modules per rack	6
Nameplate power	3.60 kW DC
String configuration	6 in series
String Vmp / Voc at STC	262.5 V / 314.3 V
String Imp / Isc at STC	13.72 A / 14.42 A
Max String Voc at -40°F (-40°C)	367 V
PV DC disconnect	1 per rack; 4 per system
Field connector	Outdoor rated, keyed and polarized

Structural Ratings	
Design standards	ASCE 7-22, AISC 360-22, AISI S100-2016 (LRFD)
Basic wind speed	120 mph (53.6 m/s)
Exposure category / Risk category	C / II
Ground snow load	1.5 kN/m² (approx. 31 psf)
Module tilt	20° rated; 45° (working) and 90° (transport / high wind stow)
Anchorage	4 × M16 Class 8.8 HDG anchor bolts per rack
Seismic	(pending)
Steel	S235JR, hot dip galvanized per ASTM A123 / EN ISO 1461
Certification	UL 2703 (pending)

Dimensions and Weights	
Overall length	276.5 in (7024 mm)
Base width	39.5 in (1003 mm)
Sloped module plane width	89.7 in (2278 mm)
Overall height (base to ridge at 20° tilt)	71.2 in (1808 mm)
Anchor spacing (lengthwise)	206 in (5232 mm)
PV Module weight per rack	437 lbs. (198 kg)
Assembled rack weight with PV modules	1398 lbs. (634 kg)
Assembled rack weight with PV and ESS	3051 lbs. (1383 kg)
Fully Assembled System (4 racks w/ESS)	7245 lbs. (3286 kg)