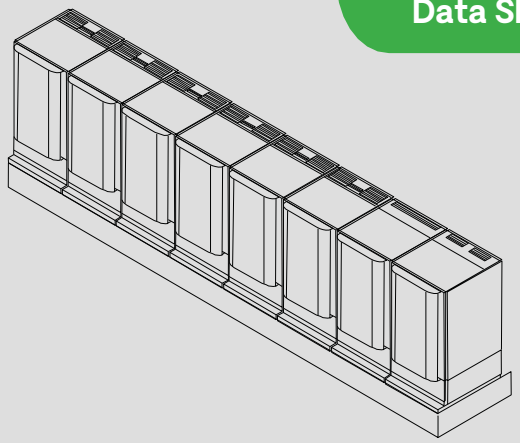
Bloomenergy®

Data Sheet

The Bloom Energy Server

Model Number: ES6-XXXXXXXXXXX-XXXXXX[4]



Specifications

Outputs

Nameplate power output (net AC)	Refer to the System Power Rating Table[5]
Voltage	3-ph, 480, 415, 400 and 380 V
Frequency	50/60 Hz

Inputs

Fuel[1]	Natural gas
Input fuel pressure	12–18 psig (15 psig nominal) 0.82-1.24 bar (1 bar nominal)
Water	None during normal operation

Efficiency

Cumulative electrical efficiency	65–53% (LHV net AC)
Heat rate (HHV)	5,811–7,127 Btu/kWh (6,131–7,519 kJ/kWh)
Cumulative thermal efficiency	>36%
Total efficiency	>90%

Emissions[2]

NO_x	0.003 lbs/MWh (0.001 kg/MWh)
SO_x	Negligible
CO	0.013 lbs/MWh (0.005 kg/MWh)
VOCs	0.01 lbs/MWh (0.004 kg/MWh)
CO_2 @ stated efficiency	679–833 lbs/MWh (308 – 378 kg/MWh)

Physical Attributes and Environment

Weight (w/skid)	Refer to the System Power Rating Table[5]
Dimensions (w/skid)	29'5" x 4'4" x 8'2" (9 m x 1.3 m x 2.5 m)
(while stacking)	34'2" x 4'6" x 9'3" (10.4 m x 1.4 m x 2.8 m)
Temperature range	-20 °C to 45 °C
Humidity	0%–100%
Seismic vibration	ASCE7 SDC (Seismic Design Category) D
Location	Outdoor
Noise	<65 dBA @ 10 ft (3 m)

Codes and Standards

Safety	FC1, UL 1741, UL 1998, CE, KESCO
EMC	EN 5501/KN11, EN 61000, KN32, KN35
Grid Interconnection	IEEE 1547 2018, UL 1741 SB, CA Rule 21, CEI 016, KEPCO, G99, C10/11[3], VDE[3]

Meets stringent CARB 2007 Distributed Generation emission standards.

An Energy Server is a Stationary Fuel Cell Power System. It is Listed by UL Solutions (UL LLC) as a 'Stationary Fuel Cell Power System' to ANSI/CSA FC1-2014 under UL Category IRGZ and UL File Number MH45102.

Model number for Energy Server 6.5 follows the format:
ES6-XXXXXXXXXXX-XXXXXX

1. Contact Bloom Energy for information on using biogas, blended hydrogen and hydrogen with the Energy Server
2. NOx and CO measured per CARB Method 100, VOCs measured as hexane by SCAQMD Method 25.3
3. Certifications expected to be available in 2024
4. X may be any number or letter.
5. Refer to your system's model number and the key in the following table for the nameplate, weight, and dimensions.

Additional Benefits

Access to a secure website to monitor system performance & environmental benefits. Remotely managed and monitored by Bloom Energy. Capable of emergency stop based on input from the site.

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Flexible. Future Proof.

Accelerate your path to a zero-carbon future.

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System Power Ratings

System Model Number	Nameplate Power Output (net AC) (kW)	Weight w/ Skid (metric ton)	Weight while Stacking (metric ton)
ES6-0500XXXXXXX-XXXXXX	50	8	10.7
ES6-0550XXXXXXX-XXXXXX	55	8	10.7
ES6-0600XXXXXXX-XXXXXX	60	8	10.7
ES6-0650XXXXXXX-XXXXXX	65	8	10.7
ES6-0700XXXXXXX-XXXXXX	70	9.6	12.4
ES6-0750XXXXXXX-XXXXXX	75	9.6	12.4
ES6-0800XXXXXXX-XXXXXX	80	9.6	12.4
ES6-0850XXXXXXX-XXXXXX	85	9.6	12.4
ES6-0900XXXXXXX-XXXXXX	90	9.6	12.4
ES6-0950XXXXXXX-XXXXXX	95	9.6	12.4
ES6-1000XXXXXXX-XXXXXX	100	9.6	12.4
ES6-1050XXXXXXX-XXXXXX	105	9.6	12.4
ES6-1100XXXXXXX-XXXXXX	110	9.6	12.4
ES6-1150XXXXXXX-XXXXXX	115	9.6	12.4
ES6-1200XXXXXXX-XXXXXX	120	9.6	12.4
ES6-1250XXXXXXX-XXXXXX	125	9.6	12.4
ES6-1300XXXXXXX-XXXXXX	130	9.6	12.4
ES6-1350XXXXXXX-XXXXXX	135	11.2	14
ES6-1400XXXXXXX-XXXXXX	140	11.2	14
ES6-1450XXXXXXX-XXXXXX	145	11.2	14
ES6-1500XXXXXXX-XXXXXX	150	11.2	14
ES6-1550XXXXXXX-XXXXXX	155	11.2	14
ES6-1600XXXXXXX-XXXXXX	160	11.2	14
ES6-1650XXXXXXX-XXXXXX	165	11.2	14
ES6-1700XXXXXXX-XXXXXX	170	11.2	14
ES6-1750XXXXXXX-XXXXXX	175	11.2	14
ES6-1750XXXXXXX-XXXXXX	175	11.2	14
ES6-1800XXXXXXX-XXXXXX	180	11.2	14
ES6-1850XXXXXXX-XXXXXX	185	11.2	14
ES6-1900XXXXXXX-XXXXXX	190	11.2	14
ES6-1950XXXXXXX-XXXXXX	195	11.2	14
ES6-2000XXXXXXX-XXXXXX	200	12.9	15.7
ES6-2050XXXXXXX-XXXXXX	205	12.9	15.7
ES6-2100XXXXXXX-XXXXXX	210	12.9	15.7
ES6-2150XXXXXXX-XXXXXX	215	12.9	15.7
ES6-2200XXXXXXX-XXXXXX	220	12.9	15.7
ES6-2250XXXXXXX-XXXXXX	225	12.9	15.7
ES6-2300XXXXXXX-XXXXXX	230	12.9	15.7
ES6-2350XXXXXXX-XXXXXX	235	12.9	15.7
ES6-2400XXXXXXX-XXXXXX	240	12.9	15.7
ES6-2450XXXXXXX-XXXXXX	245	12.9	15.7
ES6-2495XXXXXXX-XXXXXX	249.5	12.9	15.7
ES6-2500XXXXXXX-XXXXXX	250	12.9	15.7
ES6-2550XXXXXXX-XXXXXX	255	12.9	15.7
ES6-2600XXXXXXX-XXXXXX	260	12.9	15.7
ES6-2650XXXXXXX-XXXXXX	265	14.5	17.3
ES6-2700XXXXXXX-XXXXXX	270	14.5	17.3
ES6-2750XXXXXXX-XXXXXX	275	14.5	17.3
ES6-2800XXXXXXX-XXXXXX	280	14.5	17.3
ES6-2850XXXXXXX-XXXXXX	285	14.5	17.3
ES6-2900XXXXXXX-XXXXXX	290	14.5	17.3
ES6-2950XXXXXXX-XXXXXX	295	14.5	17.3
ES6-3000XXXXXXX-XXXXXX	300	14.5	17.3
ES6-3050XXXXXXX-XXXXXX	305	14.5	17.3
ES6-3100XXXXXXX-XXXXXX	310	14.5	17.3
ES6-3150XXXXXXX-XXXXXX	315	14.5	17.3
ES6-3200XXXXXXX-XXXXXX	320	14.5	17.3
ES6-3250XXXXXXX-XXXXXX	325	14.5	17.3

*Weights reflect maximum possible values for a fully populated Energy Server

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