

Biogas CHP Range Guide 2017 UK & Ireland



Product Reference	Electrical Output kW _e	Engine Manufacturer	Engine Type	Aspiration Type	Output Brake kW _b	Output Jacket Water kW _{th}	Output Exhaust Gas kW _{th}	Total Heat Output kW _{th}	Fuel Input (LHV) kW	Fuel Input (HHV) kW	Max Return Operating Temp°C	Generator Type	Generator Efficiency %	Overall Unit Efficiency (LHV)%
ENER-G 80B	81	ENER-G	EGE-06L	Natural	85	85	47	132	250	277	80	UCI274H-311	94.8	85.0
ENER-G 100B	100	ENER-G	EGE-08V	Natural	105	94	57	152	311	344	80	UCI274H-311	95.0	81.0
ENER-G 100MB	105	MAN	E 0836 LE 202	Turbocharged	110	68	49	125	274	303	80	UCI274H-311	95.0	83.8
ENER-G 150B	151	ENER-G	EGE-12V	Natural	159	131	83	214	450	498	80	UCDI274K-311	94.7	81.2
ENER-G 150MB	150	MAN	E 2876 LE 302	Turbocharged	157	84	84	181	391	433	80	HCI444E-311	95.4	84.7
ENER-G 190MB	192	MAN	E 2876 LE 302	Turbocharged	200	98	110	225	493	545	80	HCI444E-311	95.5	84.4
ENER-G 200MB	205	MAN	E 2876 LE 202	Turbocharged	215	101	113	227	533	589	80	HCI444E-311	95.5	81.2
ENER-G 249MB	249	MAN	E 2848 LE 322	Turbocharged	260	149	124	296	646	714	80	HCI534C-311	95.9	84.3
ENER-G 250MB	251	MAN	E 2848 LE 322	Turbocharged	261	150	125	297	649	718	80	HCI534C-311	95.9	84.4
ENER-G 310B	309	Perkins	4006-23TRS1	Turbocharged	322	149	181	330	831	919	80	HCI544C-311	95.8	77.0
ENER-G 360MB	366	MAN	E 2842 LE 322	Turbocharged	380	205	190	435	946	1046	80	HCI544D-311	96.0	84.7
ENER-G 375B	376	Perkins	4006-23TRS2	Turbocharged	391	162	208	370	984	1088	80	HCI544D-311	96.0	75.9
ENER-G 425B	431	Perkins	4008-30TRS1	Turbocharged	447	192	250	442	1131	1251	80	HCI544E-311	96.3	77.2
ENER-G 499B	499	Perkins	4008-30TRS2	Turbocharged	519	209	276	485	1296	1433	80	HCI634G-311	96.1	75.9
ENER-G 499MB	500	MAN	E 3262 LE 212	Turbocharged	518	250	237	547	1258	1392	80	HCI634H-311	96.4	83.2
ENER-G 500B	507	Perkins	4008-30TRS2	Turbocharged	526	211	279	490	1312	1451	80	HCI634G-311	96.1	76.0
ENER-G 530MB	532	MAN	E 3262 LE 212	Turbocharged	550	257	246	567	1329	1470	80	HCI634H-311	96.5	82.7
ENER-G 770B L32	776	MTU	AoB 8V4000L32FB	Turbocharged	800	379	321	700	1806	1997	78	PE734C-312	96.9	81.7
ENER-G 770BL L32	776	MTU	AoB 8V4000L32FB	Turbocharged	800	379	TBC	0	1806	1997	78	PE734C-312	96.9	43.0
ENER-G 1150B	1141	Caterpillar	G3516A+ LE	Turbocharged	1195	489	726	1215	3154	3488	80	TBC	95.2	74.7
ENER-G 1150BL	1141	Caterpillar	G3516A+ LE	Turbocharged	1195	489	TBC	0	3154	3488	80	TBC	95.2	36.2
ENER-G 1160B L32	1169	MTU	AoE 12V4000L32FB	Turbocharged	1200	571	488	1059	2716	3004	78	PE734E-312	97.3	82.0
ENER-G 1160BL L32	1169	MTU	AoE 12V4000L32FB	Turbocharged	1200	571	TBC	0	2716	3004	78	PE734E-312	97.3	43.1
ENER-G 1560B L32	1562	MTU	AoB 16V4000L32FB	Turbocharged	1600	628	652	1280	3616	3999	78	LSA 51.2 VL90	97.4	78.6
ENER-G 1560BL L32	1562	MTU	AoB 16V4000L32FB	Turbocharged	1600	628	TBC	0	3616	3999	78	LSA 51.2 VL90	97.4	43.2
ENER-G 1950B L32	1950	MTU	AoB 20V4000L32FB	Turbocharged	2000	736	874	1610	4502	4979	78	LV 804T-12	97.2	79.1
ENER-G 1950BL L32	1925	MTU	AoB 20V4000L32FB	Turbocharged	2000	736	TBC	0	4502	4979	80	LV 804T-12	96.0	42.8
ENER-G 1950B	1950	Caterpillar	G3520C	Turbocharged	2026	716	1298	2014	4931	5454	80	TBC	96.0	80.4
ENER-G 1950BL	1950	Caterpillar	G3520C	Turbocharged	2026	716	TBC	TBC	4931	5454	80	TBC	96.0	39.5

NB: Output figures are based on operation at ISO 3046 conditions with the exception of exhaust output, which is quoted to 180°C, figures are stated from manufacturer's declared performance figures subject to the manufacturer's tolerances and subject to change without notice. Output figures may vary under different operating regimes and site-specific characteristics. As such figures are shown for guidance only. Units built for 400V, 50Hz, 3 Phase operation. Overall unit efficiencies are based on the net fuel input (LHV) and generator efficiency at 1.0 power factor. Values for de-rated units are estimates only. Generator efficiencies are taken from the manufacturer's graph at 0.95 power factor, electrical outputs are based on these efficiencies. Please refer to ENER-G for performance at other return operating temperatures. Datasheet Issue Date 02/09/2016