

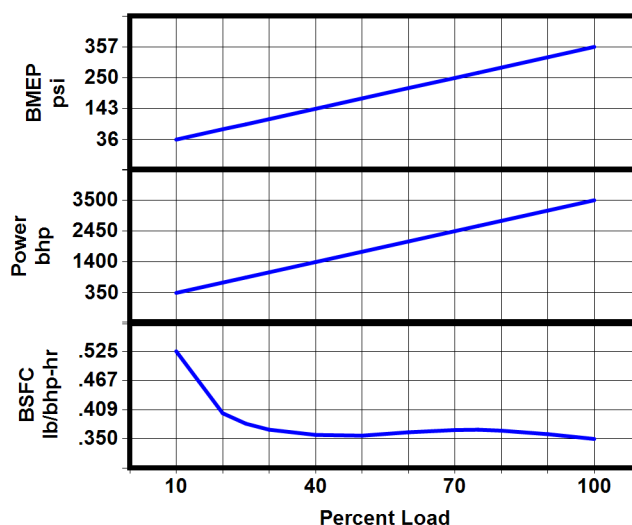
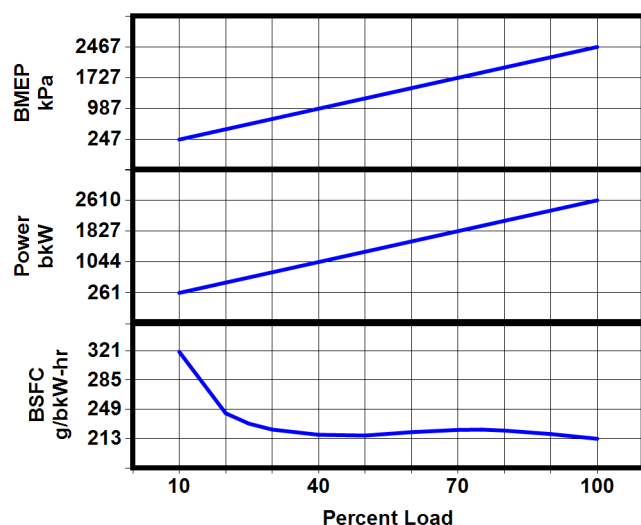
C175-16 DITA

2480 kW/50 Hz/1500 rpm/0.8 Power Factor

Rating Type: MISSION CRITICAL STANDBY

Fuel Strategy: LOW EMISSIONS

Performance Number: EM0671-02



Metric

Gen Power kW	Percent Load	Engine Power kW	Engine BMEP kPa	BSFC g/bkW-hr	Fuel Rate L/hr
2480	100	2610.5	2467	213.0	662.8
2232	90	2349.5	2220	218.8	612.9
1984	80	2088.4	1973	223.1	555.3
1860	75	1957.9	1850	224.3	523.4
1736	70	1827.4	1727	223.9	487.6
1488	60	1566.3	1480	221.1	412.9
1240	50	1305.3	1233	217.0	337.7
992	40	1044.2	987	217.9	271.3
744	30	783.2	740	224.3	209.4
620	25	652.6	617	231.6	180.1
496	20	522.1	493	244.3	152.0
248	10	261.1	247	319.6	99.5

English

Gen Power kVA	Percent Load	Engine Power bhp	Engine BMEP psi	BSFC lb/bhp-hr	Fuel Rate gph
3100	100	3501	358	.350	175.1
2790	90	3151	322	.360	161.9
2480	80	2801	286	.367	146.7
2325	75	2626	268	.369	138.3
2170	70	2451	250	.368	128.8
1860	60	2100	215	.364	109.1
1550	50	1750	179	.357	89.2
1240	40	1400	143	.358	71.7
930	30	1050	107	.369	55.3
775	25	875	89	.381	47.6
620	20	700	72	.402	40.2
310	10	350	36	.525	26.3

Gen Power kW	Intake Manifold Temp °C	Intake Manifold Press kPa	Intake Air Flow m³/min	Exhaust Manifold Temp °C	Exhaust Stack Temp °C	Exhaust Gas Flow m³/min
2480	52.0	289.4	215.3	669.9	498.7	577.0
2232	50.3	278.3	211.9	649.6	487.9	556.3
1984	48.2	256.5	201.9	625.9	474.9	519.3
1860	46.9	241.2	194.2	612.9	467.8	494.1
1736	45.4	220.7	183.5	599.8	460.5	461.2
1488	42.4	174.9	158.8	569.8	443.6	387.8
1240	39.5	127.4	132.6	534.8	423.4	311.4
992	38.1	89.0	110.8	488.8	396.5	248.7
744	37.0	56.8	91.8	431.5	358.7	193.8
620	36.3	42.9	83.5	398.6	335.7	169.3
496	35.7	30.6	75.8	362.8	310.0	146.8
248	33.9	16.3	67.9	276.9	227.8	112.3

Gen Power kVA	Intake Manifold Temp °F	Intake Manifold Press in Hg	Intake Air Flow cfm	Exhaust Manifold Temp °F	Exhaust Stack Temp °F	Exhaust Gas Flow cfm
3100	125.6	85.7	7602.0	1237.8	929.6	20375.4
2790	122.5	82.4	7481.8	1201.2	910.2	19644.3
2480	118.7	76.0	7129.0	1158.6	886.9	18338.6
2325	116.5	71.4	6857.1	1135.3	874.0	17448.3
2170	113.8	65.4	6478.2	1111.6	861.0	16285.1
1860	108.3	51.8	5608.2	1057.6	830.5	13692.1
1550	103.2	37.7	4683.7	994.6	794.1	10997.1
1240	100.6	26.4	3911.9	911.9	745.7	8780.9
930	98.5	16.8	3243.3	808.7	677.6	6842.9
775	97.4	12.7	2947.7	749.4	636.3	5978.3
620	96.2	9.1	2677.9	685.0	590.0	5183.1
310	92.9	4.8	2396.4	530.5	442.0	3964.2

C175-16 DITA
2480 ekW/50 Hz/1500 rpm/0.8 Power Factor

Rating Type: MISSION CRITICAL STANDBY

Fuel Strategy: LOW EMISSIONS

Performance Number: EM0671-02

Heat Rejection Data

Metric						English					
Gen Power ekW	Percent Load	Rejection to Jacket Water kW	Rejection to Atmos kW	Rejection to Exhaust kW	From Oil Cooler kW	Gen Power kVA	Percent Load	Rejection to Jacket Water Btu/min	Rejection to Atmos Btu/min	Rejection to Exhaust Btu/min	From Oil Cooler Btu/min
2480	100	1258.7	184.0	2582.9	352.0	3100	100	71579.0	10462.2	146885.3	20016.4
2232	90	1154.0	176.2	2436.7	325.4	2790	90	65625.6	10019.2	138573.7	18507.2
1984	80	1038.5	168.1	2240.3	294.9	2480	80	59057.1	9558.7	127405.1	16769.5
1860	75	976.0	163.9	2121.5	277.9	2325	75	55505.7	9322.1	120647.9	15805.1
1736	70	907.1	159.7	1979.6	258.9	2170	70	51587.1	9082.3	112579.4	14725.2
1488	60	766.0	151.0	1671.5	219.2	1860	60	43559.8	8587.2	95059.0	12468.2
1240	50	627.8	141.9	1351.6	179.3	1550	50	35702.5	8070.6	76861.5	10196.7
992	40	511.7	131.7	1065.1	144.0	1240	40	29098.6	7487.2	60572.6	8191.4
744	30	407.2	121.5	799.7	111.2	930	30	23154.9	6909.0	45480.2	6322.9
620	25	359.3	116.6	674.9	95.7	775	25	20430.6	6632.3	38382.5	5439.9
496	20	314.3	112.0	555.4	80.7	620	20	17871.6	6369.8	31584.4	4591.1
248	10	231.5	103.8	361.3	52.8	310	10	13165.1	5904.3	20546.8	3003.3

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