

DC LOAD ANALYSIS**ESSENTIAL DC BUS NO. 1**

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596	38.70	38.50	38.50	60.40
30597 through 30849	24.90	24.70	(30 MIN) 24.70	(5 MIN) 46.70
30850 through 31221	24.48	24.22	24.24	31.64
31222 and subsequent (without FDR)	24.47	24.21	24.23	31.63
35048 and subsequent (with FDR)	24.47	24.21	24.23	31.63

ESSENTIAL DC BUS NO. 2

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596	31.20	31.20	33.80	32.20
30597 through 30849	36.10	36.70	(30 MIN) 39.30	(5 MIN) 38.50
30850 through 31221	31.60	31.21	(30 MIN) 36.77	(5 MIN) 31.58
31222 and subsequent (without FDR)	31.33	30.94	36.50	31.31
35048 and subsequent (with FDR)	32.04	31.66	37.21	32.02

NON-ESSENTIAL DC BUS NO. 1

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596	NO-LOAD			
30597 through 30849	NO-LOAD			
30850 through 31221	NO-LOAD			
31222 and subsequent (without FDR)	NO-LOAD			
35048 and subsequent (with FDR)	NO-LOAD			

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Figure 98-7. DC load analysis chart (Sheet 1 of 7)

DC LOAD ANALYSIS

NON-ESSENTIAL DC BUS NO. 2

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596	6.80	6.80	6.80	6.80
30597 through 30849	6.80	6.80	(30 MIN) 6.80	(5 MIN) 6.80
30850 through 31221	6.84	6.84	(30 MIN) 6.84	(5 MIN) 6.84
31222 and subsequent (without FDR)	6.84	6.84	6.84	6.84
35048 and subsequent (with FDR)	6.84	6.84	6.84	6.84

BATTERY BUS

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596	39.10	19.00	6.50	5.80
30597 through 30849	59.60	19.50	(30 MIN) 7.00	(5 MIN) 6.30
30850 through 31221	54.27	29.10	(30 MIN) 14.37	(5 MIN) 8.86
31222 and subsequent (without FDR)	54.27	29.10	14.37	8.86
35048 and subsequent (with FDR)	54.27	29.10	14.37	8.86

INVERTER 3 – DC BUS

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596				
30597 through 30849	1.50	1.50	1.50	1.50
30850 through 31221	3.24	3.24	(30 MIN) 3.24	(5 MIN) 3.24
31222 and subsequent (without FDR)	3.24	3.24	3.24	3.24
35048 and subsequent (with FDR)	3.24	3.24	3.24	3.24

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Figure 98-7. DC load analysis chart (Sheet 2)

DC LOAD ANALYSIS

TOTAL ALL DC BUSES — BASIC ACFT

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596	115.80	95.50	85.60	105.20
30597 through 30849	129.90	89.20	(30 MIN) 79.20	(5 MIN) 99.80
30850 through 31221	120.43	94.62	(30 MIN) 85.47	(5 MIN) 82.17
31222 and subsequent (without FDR)	120.15	94.33	85.18	81.89
35048 and subsequent (with FDR)	122.53	96.75	87.60	84.30

ESSENTIAL DC BUS NO. 1 — FAA IFR

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596				
30597 through 30849	52.10	52.90	52.60	74.50
30850 through 31221	25.42	25.42	(30 MIN) 25.42	(5 MIN) 25.42
31222 and subsequent (without FDR)	20.10	20.10	20.10	20.10
35048 and subsequent (with FDR)	20.10	20.10	20.10	20.10

ESSENTIAL DC BUS NO. 2 — FAA IFR

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596				
30597 through 30849	48.00	47.60	50.20	49.40
30850 through 31221	10.82	10.82	(30 MIN) 10.82	(5 MIN) 10.82
31222 and subsequent (without FDR)	10.05	10.05	10.05	10.05
35048 and subsequent (with FDR)	10.05	10.05	10.05	10.05

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Figure 98-7. DC load analysis chart (Sheet 3)

DC LOAD ANALYSIS**TOTAL ALL DC BUSES — BASIC + IFR**

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596				
30597 through 30849	168.00	126.70	117.10 (30 MIN)	138.50 (5 MIN)
30850 through 31221	156.67	130.85	121.70	118.40
31222 and subsequent (without FDR)	150.31	124.49	115.34	112.04
35048 and subsequent (with FDR)	152.72	126.90	117.75	114.45

ESSENTIAL DC BUS NO. 1 — AUX KIT

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596	3.10	3.10	3.10 (30 MIN)	3.10 (5 MIN)
30597 through 30849	0.20	0.20	0.20 (30 MIN)	0.20 (5 MIN)
30850 through 31221	2.78	2.78	2.85	2.78
31222 and subsequent (without FDR)	2.78	2.78	2.85	2.78
35048 and subsequent (with FDR)	2.78	2.78	2.85	2.78

ESSENTIAL DC BUS NO. 2 — AUX KIT

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596	1.30	1.30	1.30 (30 MIN)	1.30 (5 MIN)
30597 through 30849	0.20	0.20	0.20 (30 MIN)	0.20 (5 MIN)
30850 through 31221	2.21	5.60	2.20	5.60
31222 and subsequent (without FDR)	2.21	5.60	2.20	5.60
35048 and subsequent (with FDR)	2.21	5.60	2.20	5.60

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Figure 98-7. DC load analysis chart (Sheet 4)

DC LOAD ANALYSIS

NON-ESSENTIAL DC BUS NO. 1 — AUX KIT

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596				
30597 through 30849				
30850 through 31221	70.00	70.00	70.00	70.00
31222 and subsequent (without FDR)	70.00	70.00	70.00	70.00
35048 and subsequent (with FDR)	70.00	70.00	70.00	70.00

NON-ESSENTIAL DC BUS NO. 2 — AUX KIT

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596			53.30 (30 MIN)	
30597 through 30849	60.60	60.60	93.90 (30 MIN)	60.60 (5 MIN)
30850 through 31221	0.41	0.41	33.73	0.41
31222 and subsequent (without FDR)			62.10	
35048 and subsequent (with FDR)			62.10	

TOTAL ALL DC BUSES — BASIC + AUX KIT

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596	118.20	97.90	121.30 (30 MIN)	107.60 (5 MIN)
30597 through 30849	190.90	150.20	173.50 (30 MIN)	160.80 (5 MIN)
30850 through 31221	195.83	173.41	194.24	160.96
31222 and subsequent (without FDR)	195.14	172.71	222.34	160.27
35048 and subsequent (with FDR)	195.14	172.71	222.34	160.27

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Figure 98-7. DC load analysis chart (Sheet 5)

DC LOAD ANALYSIS

ESSENTIAL DC BUS NO. 1 – CUSTOM

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596				
30597 through 30849				
30850 through 31221	0.63	0.63	0.63	0.63
31222 and subsequent (without FDR)	0.24	0.24	0.24	0.24
35048 and subsequent (with FDR)	0.11	0.11	0.11	0.11

ESSENTIAL DC BUS NO. 2 – CUSTOM

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596				
30597 through 30849				
30850 through 31221	7.02	7.02	7.02	7.02
31222 and subsequent (without FDR)	7.02	7.02	7.02	7.02
35048 and subsequent (with FDR)	7.02	7.02	7.02	7.02

NON-ESSENTIAL DC BUS NO. 2 – CUSTOM

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596				
30597 through 30849				
30850 through 31221	4.25	4.25	4.25	4.25
31222 and subsequent (without FDR)	4.25	4.25	4.25	4.25
35048 and subsequent (with FDR)	4.25	4.25	4.25	4.25

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Figure 98-7. DC load analysis chart (Sheet 6)

DC LOAD ANALYSIS

ALL DC BUSSES — BASIC + IFR + CUSTOM

EFFECTIVITY	START AND WARMUP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
30504 through 30596				
30597 through 30849				
30850 through 31221	243.97	221.54	242.38	209.09
31222 and subsequent (without FDR)	236.81	214.38	264.00	201.93
35048 and subsequent (with FDR)	239.09	216.66	266.29	204.22

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Figure 98-7. DC load analysis chart (Sheet 7)