

Boeing Classic 747 Limitations

Speed Mmo RVSM Below 520,000	.87	m
Speed Mmo RVSM	.90	m
Speed Mmo	.92	m
APU Starting 61-90 seconds ON 15 min OFF per hour	2	hr
Runway Slope + -	2	%
APU Starting 1 min ON 5 min OFF per hour	3	hr
Oil Min Qty CF6 Enroute	3.25	gal
Hyd 2 & 3 min svc	4	qts
Oil Min Qty JT9 Enroute ½ full or	4	gal
Starter max operation CF6	5	min
Oil Min Qty JT9 Maint full or	7	gal
Hyd 1 & 4 min svc	7.5	qts
Xwind	10	kts
Oil Temp Yellow CF6	15	min
Xwind Autoland Not Authorized	15	kts
Oil Temp Yellow JT9	20	min
Battery Volts Min	22	vdc
Oil Min Qty CF6 Maint full or	22	qts
Starter max operation JT9 3 attempts in 10 minutes	15 on 15 off	min
Xwind Demonstrated	30	kts
Battery Volts Acft / TR 25 -	32	vdc
Battery Volts APU 25 -	36	vdc
Door Operating Wind	40	kts
N1 Min Below 10,000	45	%
N1 Min At or Above 10,000	50	%
Gen 3 or 4 parallel	51	kw
Gen 1 Isolated	54	kw
TR No Cool	54	a
Door Opened Wind	65	kts
N1 Min (no high stage bleed)	70	%
TR Cont	75	a
Gen 2 parallel	81	kw
TR 30 Min	93	a
TR 5 Min	113	a
APU / Ext Pwr Max Load	250	a
Speed Turb Air (100) 280-290 .82 - .85	290	kts
Speed Turb Air (200) 290-310 .82 - .85	310	kts
Vle .82	320	kts
Speed Vmo Sea Level	378	kts
Gen AC 115V +/- 5	400	hz
Vlo .82	270 & 250	kts
EGT Starting A	650	c
EGT Starting F	650	c
EGT Starting J	650	c
APU EGT Continuous 657 -	670	c
EGT Starting -CF6	750	c
Hyd Brake Accum	750	psi

EGT Cont A	875	c
EGT Cont -CF6	910	c
EGT Cont F	910	c
EGT Acceleration A	915	c
EGT TO A	915	c
EGT Cont J	925	c
EGT TO -CF6	945	c
EGT Acceleration F	950	c
EGT TO F	950	c
EGT Acceleration -CF6	960	c
EGT Acceleration J	985	c
EGT TO J	985	c
APU EGT Starting 900 -	990	c
Hyd Press Low	1200	psi
Hyd Air Driven Pump	2600	psi
Hyd Press Norm 2800 -	3200	psi
Hyd Press Relief 3450 -	3650	psi
TO & LDG Max Alt	10000	msl
O2 Masks Drop	14000	ft
APU In Flight Use Below (electrical power & icing not permitted)	15000	ft
APU InFlight Start Max Alt	20000	ft
Altitude Max	45100	ft