

# Key parameter list (2001.3.27)



	Nominal	Back-up
Kinetic energy, $E_k$ [MeV]	1000	975
Uncertainty, $\Delta E_k$ (95% probability) [MeV]	+/- 15	+/- 15
SRF cryo-module number	11+12	11+15
SRF cavity number	33+48	33+60
Peak gradient, $E_p$ ( $\beta=0.61$ cavity) [MV/m]	27.5 (+/- 2.5)	27.5 (+/- 2.5)
Peak gradient, $E_p$ ( $\beta=0.81$ cavity) [MV/m]	35 (+2.5/-7.5)	27.5 (+/- 2.5)
Chopper beam-on duty factor [%]	68	68
Linac duty cycle [%]	6.0	6.0
Pulse length on target [ns]	695	699
Power on target, $P_{max}$ [MW]	1.5	1.7
Linac peak current, $I_{peak}$ [mA]	41	47
Linac average current, $I_{ave}$ [mA]	1.7	1.9
Ring rf frequency [MHz]	1.058	1.054
Ring injection time [ms] / turns	1.0 / 1060	1.0 / 1054
Ring bunch intensity [ $10^{14}$ ]	1.7	1.9
Ring space-charge tune spread, $\Delta Q_{sc}$	0.16	0.20