

Electron Beam Design Parameters	Nominal Operation Mode		Special Operation Mode	
	Long Pulses	Short Pulses	Large Bandwidth	Ultra-Short Pulses
Charge per bunch (pC)	<b>200</b>	<b>10</b>	200	10
Beam energy for 1 Å (GeV)	5.8	5.8	5.8	5.8
Core slice emittance (mm.mrad)	0.43	0.18	0.43	0.25
Projected emittance (mm.mrad)	0.65	0.25		0.45
Energy spread (keV, rms)	350	250	25000	1000
Relative energy spread (% , rms)	0.006	0.004	0.3	0.02
Peak current at undulator (kA)	2.7	1.6	3	15
Bunch length (fs, rms)	25	2	22	0.3
Bunch compression factor	125	533	136	5000
Repetition rate (Hz)	100	100	100	100
Number of bunches / RF pulse	2	2	2	2
Bunch spacing (ns)	28	28	28	28