

## Main parameters of the Solaris storage ring

<b>Parameter</b>	<b>Value</b>
Energy	1.5 GeV
Current	500 mA
Circumference	96 m
RF Frequency	99.98 MHz
Harmonic number	32
Horizontal emittance (bare lattice)	5.982 nm rad
Coupling	1%
Tune $Q_x, Q_y$	11.22, 3.15
Natural chromaticity $\xi_x, \xi_y$	-22.96, -17.14
Beam size in the straight section centre $\sigma_x, \sigma_y$	184 $\mu\text{m}$ , 13 $\mu\text{m}$
Momentum compaction	$3.055 \times 10^{-3}$
Momentum acceptance	4%
Total lifetime	13 h