

NEXT-100 Parameters	value	units
Active Mass Xenon (inside QT array)	100.00	kg
Active mass Length to radius ratio	2.50	
Nominal Operating Pressure	15.00	bar(abs.)
Maximum /Allowable Pressure	16.40	bar(abs.)
Active Volume radius (cyl radius inscribed in QT array)	51.90	cm
Active Volume Length (cathode reflector to SiPM plane)	130.00	cm
Quartz Tube Outer diameter	4.20	cm
QT/WLS/PMT array nominal Radius	54.00	cm
Number of QT/WLS/PMT assemblies	72	
Xenon vessel inner radius	57.00	cm
Xenon Vessel Wall Thickness	1.00	cm
Buffer gas minimum annulus	3.00	cm
Pressure vessel inner radius , minimum	61.00	cm
Pressure vessel material	PTi-gr.2 or 3	
Pressure vessel minimum wall thickness	0.835	cm
Buffer gas	N2	
Cathode Voltage (est)	200	kV
EL start grid voltage	30	kV
EL end grid voltage (SiPM plane)	0	V
Buffer gas annulus at HV (est)	8	cm
Pressure Vessel radius at cathode	66.00	cm
Pressure vessel wall thickness at cathode	0.904	cm
Pressure Vessel Flange Thickness, initial	10.00	cm
PMT shield axial length (PMT base to leading edge)	20.00	cm
PMT shield width, in radial direction, max	11.50	cm
PMT shield inner radius	40.00	cm
PMT shield outer radius	51.50	