

Generators.

YBCO Specification

Requirement	Value
Mechanical [design dependent] tensile strain* compressive strain* temperature cycling, OT to ambient cycling (*at OT)	95% Ic retention for: .25%, 10,000 cycles .25%, 10,000 cycles 100 cycles (3-sigma lower limits)

YBCO Specification

Requirement	Value
Operating Temperature	As high as possible (25K +). Tradeoff between wire and refrigeration cost.
Current	100-200A = I_c
Current Density	$J_e \approx 10,000 \text{ A/cm}^2$ (design dependent)

YBCO Specification

Requirement	Value
Stability	Stable to all operational conditions per conventional standards.
AC loss	Design dependent. <~10W at ac + dc fields/currents
Fault/Recovery	IEEE: 2.08 pu fault-induced field current.

YBCO Specification

Requirement	Value
Wire camber and condition.	Should not depart from straightness more than 5%
Joints	Design dependent. <~.5 microhm
Insulation	Design dependent. >~500V; adherent