

Magnet Power Supplies of PLS 2 GeV Storage Ring*, S.H. NAM, S.H. JUNG, S.H. HAN, J.H. SUH,

K.M. HA, and M.H. YOON, PAL, Postech, Korea - Total 215 magnet power supplies are under operation in Pohang Light Source (PLS). Current, voltage, and peak power handling capabilities of DC power supply are in the range of 21 to 643 volt, 45 to 850 A, and 0.94 to 531 kW, respectively. The DC supplies can be categorized as unipolar and bipolar power. The unipolar power supplies are for bending, quadrupole, sextupole, and septum magnet loads in the storage ring tunnel. The bipolar power supplies are driving vertical and horizontal corrector, bending trim, and sextupole vertical and horizontal steering magnets. Typical stability and ripple of unipolar power supplies are $\pm 0.005\%$ and $\pm 0.05\%$, respectively. The bipolar power supplies are $\pm 0.05\%$ stability and $\pm 0.5\%$ ripple. Reliability and Stability of the magnet power supplies are extremely important for stable operation of the PLS. In this presentation, operation status of PLS magnet power supplies will be presented and discussed.

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