

DAFNE Magnet Power Supply System, R. RICCI, C. SANELLI, A. STECCHI, INFN-LNF - The e^+e^- Particle Accelerator Complex DAFNE (1020 MeV at center of mass) consists of a linear accelerator Linac, a damping ring (DR), nearly 200 m of transfer lines (TL), and two storage rings (SR), that intersect each other in two interaction points (IP), for Phi particle production. The DR, TL and SR magnets are powered by means of 480 power supplies, rating from 100 VA to 1500 kVA. The very different output currents, from 10 A to 2300 A, and output voltages, from 8 V to 1300 V, imposed many different technical solution realized by the varous industries (Danfysik - Denmark, Hazemeyer - France, Inverpower - Canada, OCEM - Italy). This paper describes the Power Supply System giving also a description of the different typologies, their characteristics and control systems. The paper reports also the power supply performances and gives information on their installation and first year operation period.