

High RF power solid state amplifier developments at SOLEIL

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The required RF power for the SOLEIL Booster and Storage ring is provided using 352 MHz solid state amplifiers (1 x 35 kW and 4 x 190 kW). They consist in a combination of a large number of 330 W amplifier modules (1 x 147 and 4 x 726), based on a design developed in house, with LDMOS transistors, integrated circulators and individual power supplies. After about four years of running, the operational experience proved to be fully satisfactory. In the meantime, developments were carried out, which leads to a new generation of modules. The operational experience and development results are reported.

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