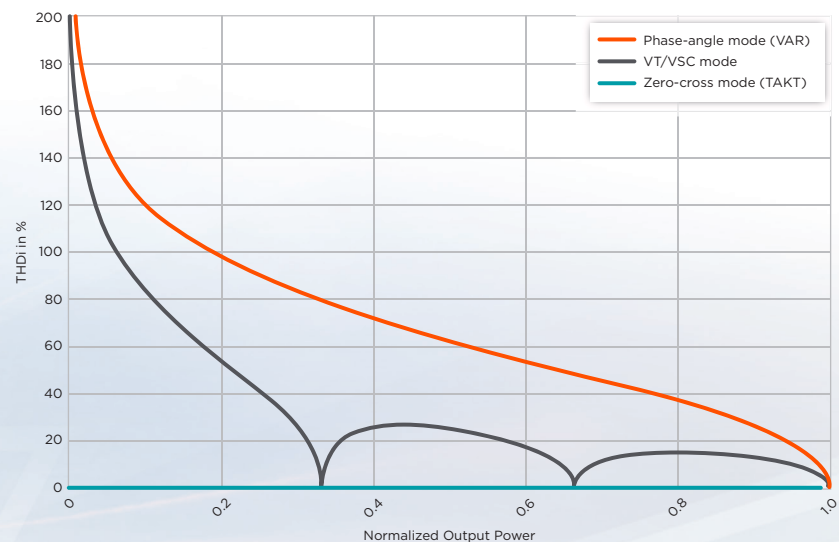


Modern SCR power controllers offer multiple operation modes, enabling you to select the best control method for your application, whether your priority is to minimize THDi or maximize power resolution.

<b>VAR</b> Phase Angle	Fast-responding transformer-coupled or inductive loads	High control resolution, but low power factor and excessive harmonics that can interfere with other equipment
<b>TAKT</b> Zero Cross	Loads with high thermal inertia and switching speeds as fast as once per second	Full-wave switching: virtually no harmonics, drives transformer-coupled loads while minimizing inrush current, supports power manager or mains load optimization (dASM) for multiple-zone applications
<b>VSC</b> Voltage Sequence Control	Applications with single or multiple transformer-coupled heating zones	"Autotap" mode: phase-angle mode's fast response, high control dynamic, and high control resolution per cycle—with harmonics and noise optimization
<b>QTM or VT</b> Half-Wave Firing or Zero Cross + Phase Angle	Non-transformer-coupled loads with low thermal inertia, such as in infrared and single-phase applications	The advantages of both zero-cross and phase-angle modes—plus mains load optimization (SVT or internal mains load optimization) for multiple-zone applications
<b>MOSI</b>	Heating resistors with very low cold resistance and high thermal inertia	The advantages of zero-cross mode for applications requiring pre-heating in phase-angle firing for each production cycle: automatic temperature ramp-up in phase-angle mode, followed by automatic switching to zero-cross mode to maintain temperature set point

**For multiple-zone applications operating in zero-cross mode, automatic digital mains load optimization (dASM) reduces peak load demand and THDi, which reduces energy usage.**



**Optimize your heating application with the ideal operation mode.**

**Click to learn more.**

*THDi reduction with VT, VSC, and TAKT firing modes*