

TOSHIBA G9000 SERIES UPS LOAD POWER FACTOR PERFORMANCE CURVE

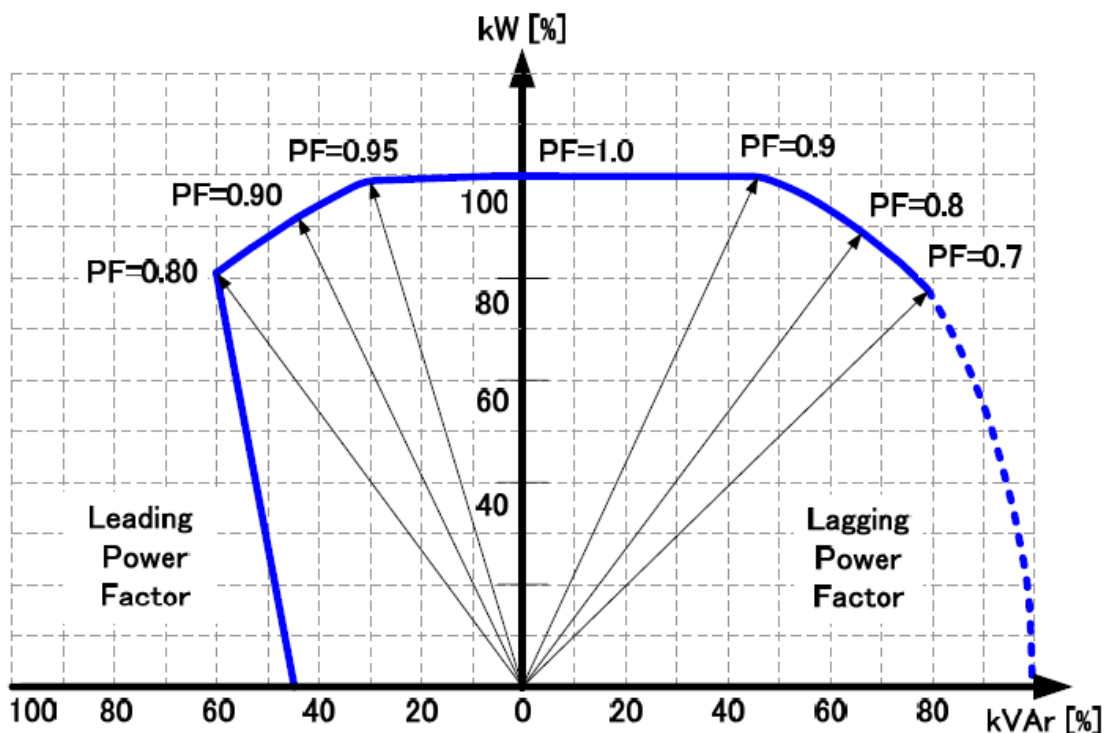


Fig. 1 Derating curve for G9000 Series UPS

The derating curve in bold shown in Fig. 1 depicts the test results using a sample of G9000 Series UPS. The dotted line represents the trend of the load power factor for this UPS model. Numbers are shown in percentage, where 100% = UPS capacity in kVA X Output power factor rating.

In the tests, for a lagging power factor load, the UPS supplied a full range load in kVA. For a leading power factor load, the inverter current was taken as a constant and the load was adjusted accordingly. Tests have shown that the G9000 Series UPS can even handle a load with unity leading power factor (pure capacitive) without compromising performance and accuracy.