

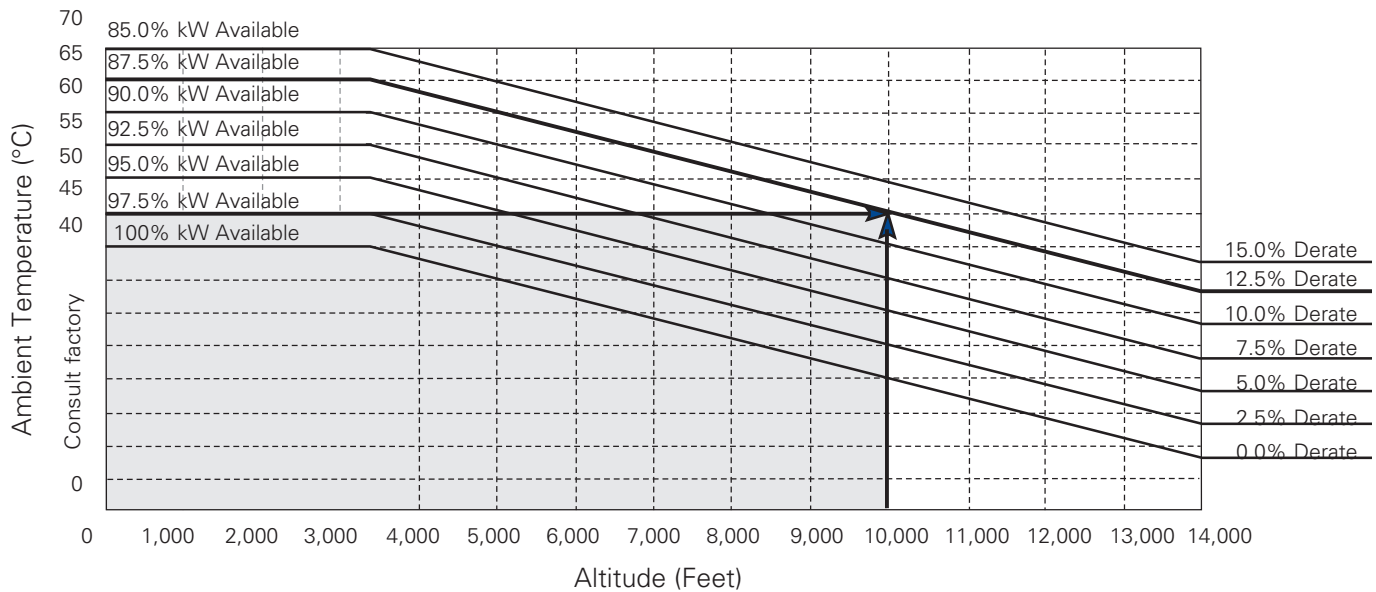
# marathon®

## Generators

**ALTITUDE / AMBIENT** - For applications over 3300 feet elevation or where the temperature of the ventilating air to the generator exceeds 40°C (104°F), derating of the generator will be necessary. To determine the derating, use the chart below by moving vertically on the specified altitude to the horizontal line that matches the required ambient temperature, then select the derating required.

**Note:** When a NEMA class of insulation is specified, additional derating of kW available may be necessary. Per NEMA MG 1-2011, Part 32.6: For successful operation of generators in ambient temperatures higher than 40°C, the temperature rises... shall be reduced by the number of degrees that the ambient temperature exceeds 40°C.

### ALTITUDE/AMBIENT RATING ADJUSTMENT



**Example:**  
 Elevation: 10,000 feet  
 Ambient: 45°C  
 Required Derate: 12.5%  
 Catalog Rating x .875

**Example:**  
 NEMA B class of insulation is specified in a 45°C ambient.  
 Maximum allowable temperature rise is reduced from 80°C to 75°C.