AC Inverter Derating

Thermal Derating

The ambient temperature range of the G7 ASD is from -10 to 40° C. Table 3 provides the derating percentage to be considered when selecting a drive based on the ambient temperature. The derating percentage references the full load capabilities of the drive.

Table 3. Thermal Derating.

Ambient 1	emperature	Percent Derating (Amps)
40° C	104° F	0%
45° C	113° F	7%
50° C	122° F	14%
55° C	131° F	20%

Altitude Derating

Toshiba inverters are capable of operating at altitudes up to 3,300 feet without requiring an altitude derate. Table 4 provides the derating percentage to be considered when using a drive above 3,300 feet.

Table 4. Altitude Derating.

Altitude		
1006 meters	0%	
1219 meters	2.3%	1.7/500
1372 meters	4.0%	1.7/500
1524 meters	5.6%	J1161 300
2286 meters	13.9%	
2591 meters	19.0%	
3048 meters	22.0%] = 11,000 = 25
	1006 meters 1219 meters 1372 meters 1524 meters 2286 meters 2591 meters	1006 meters 0% 1219 meters 2.3% 1372 meters 4.0% 1524 meters 5.6% 2286 meters 13.9% 2591 meters 19.0%