



SCH275KTL

Characteristic Curves



Title:	Characteristic Curves SCH275KTL
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Reviewed by:	

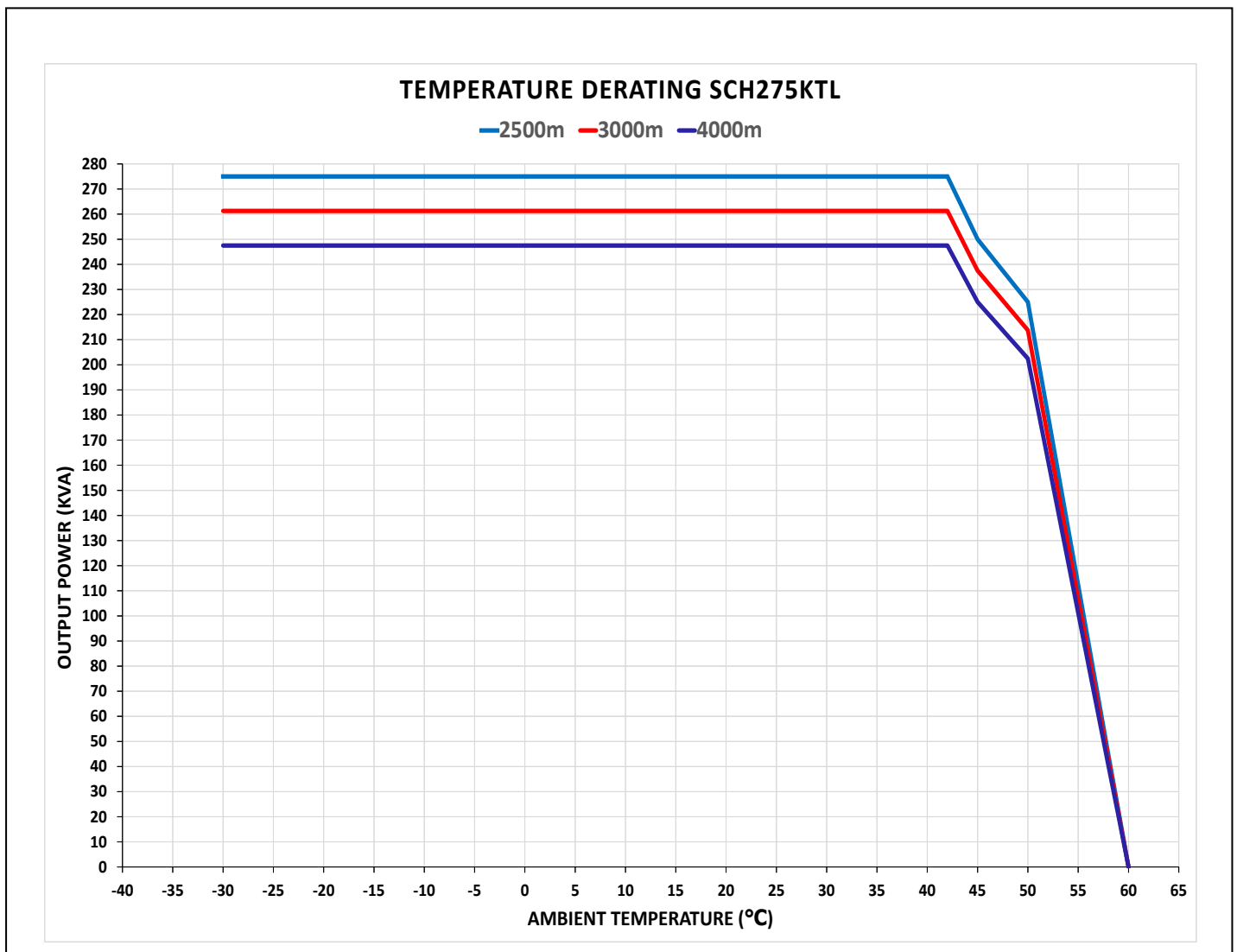
1. Scope

This document details characteristic curves of SCH275KTL.

2. Characteristic Curves

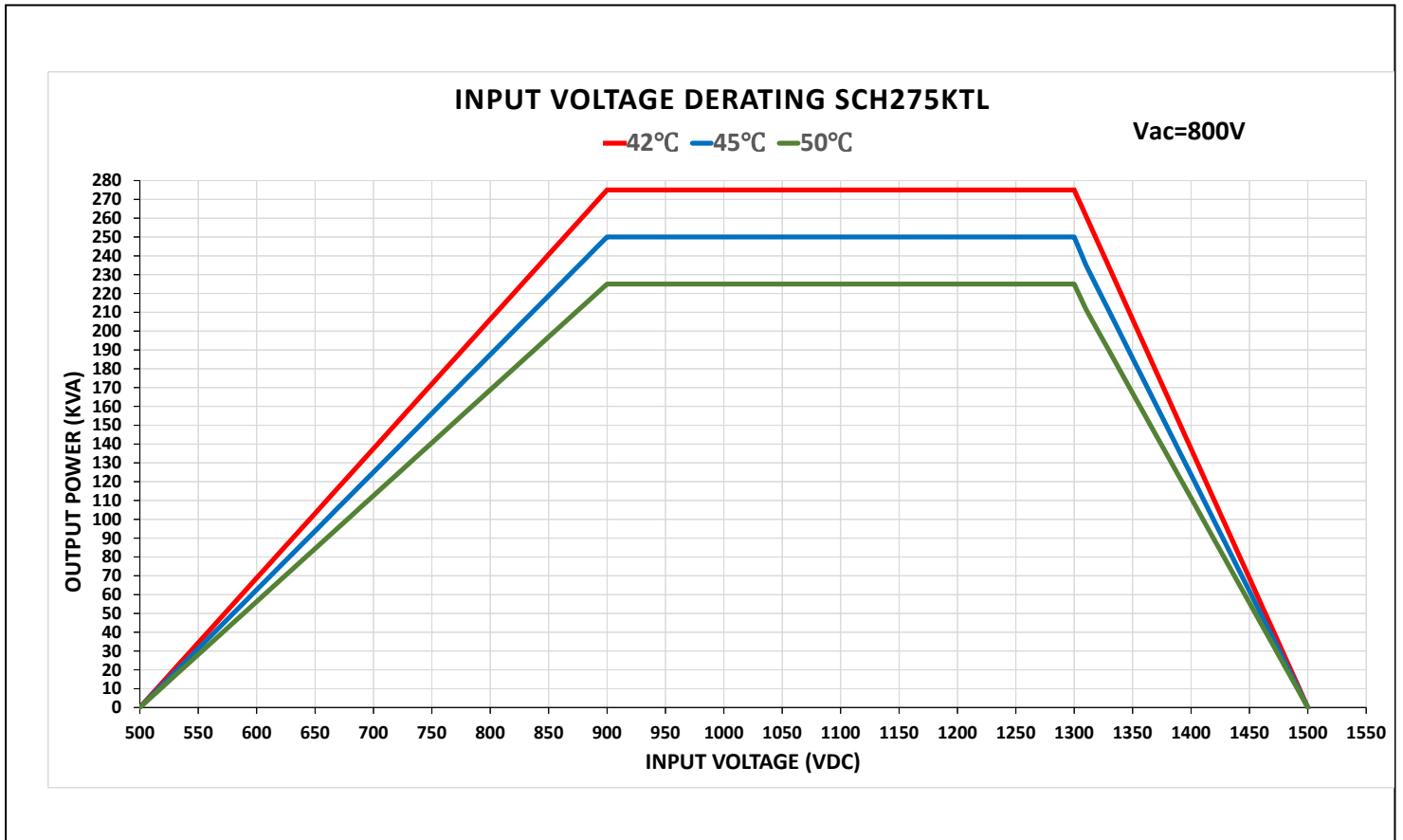
2.1 Temperature and Altitude Dependency Derating

Inverter output power needs to be de-rated when installed at altitude above 2500m and ambient temperature above 42°C. De-rating needs to be performed according to the chart shown below:



2.2 DC Input Voltage De-Rating

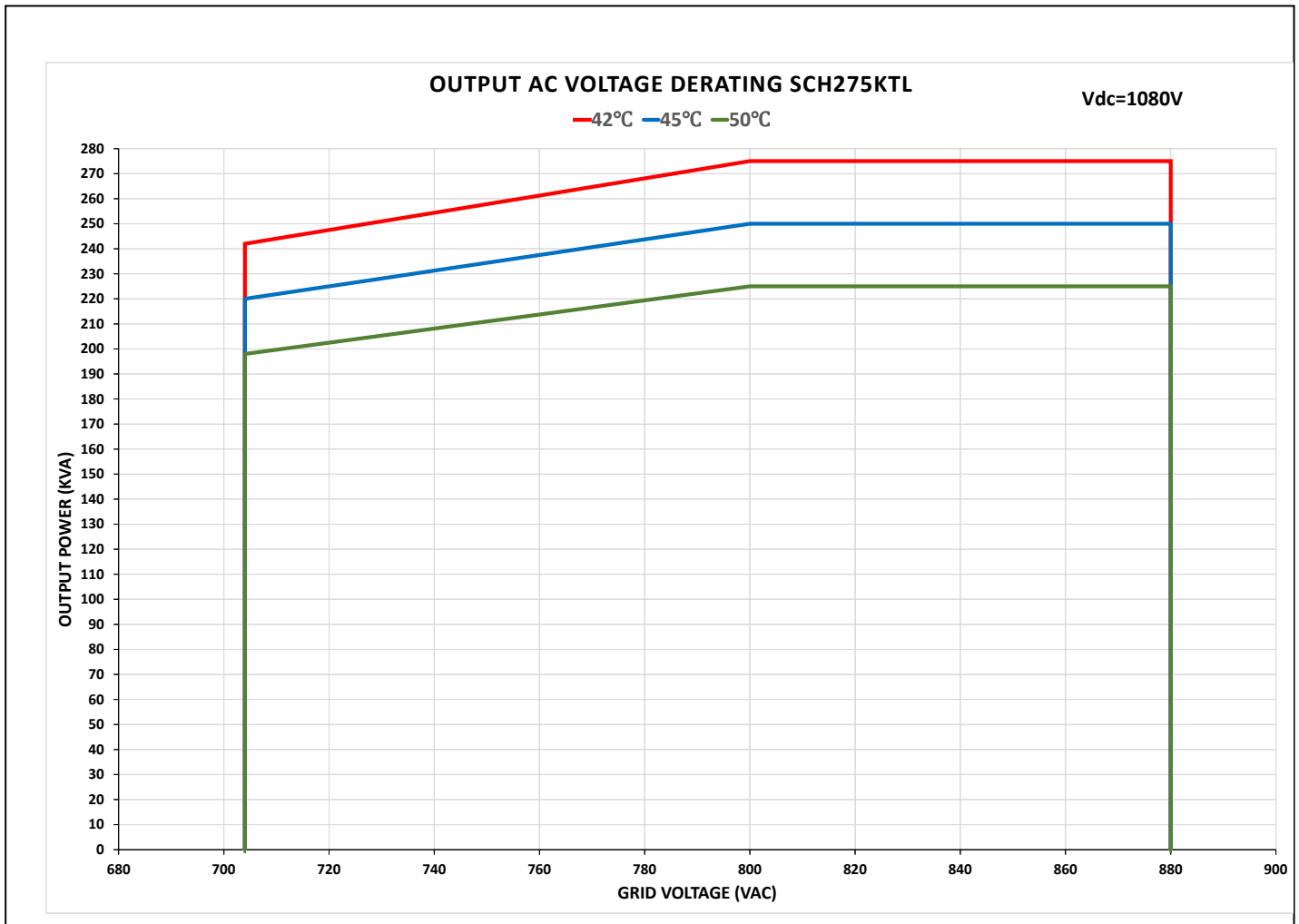
Inverter full power operating range is 880-1300VDC. Below and above this range there is a linear de-rating of the inverter output power. De-rating of the inverter is detailed in the chart below:



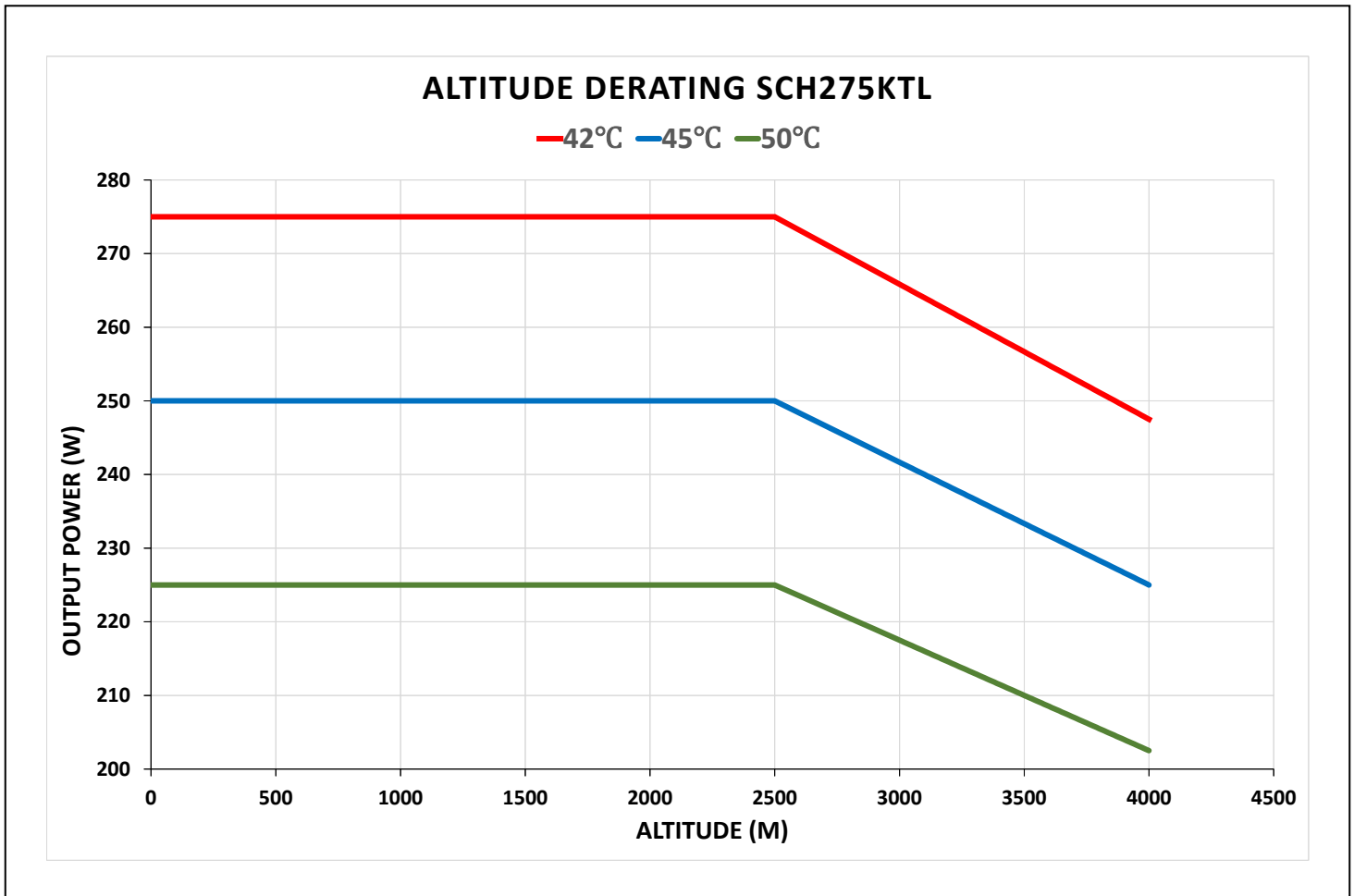
2.3 AC Output Voltage De-rating

Inverter AC output voltage operating range is 704-880VAC. Below 800VAC inverter will de-rate linearly in order not to exceed the maximum AC output current of 198.5 Amps.

AC output voltage linear de-rating is shown in the chart below:



2.4 Altitude De-rating



2.5 P-Q Capabilities at Nominal Output Voltage

Inverter is capable providing reactive power of $\pm 165\text{kVAR}$ at nominal grid voltage and rated ambient temperature. Chart below details inverter reactive power capabilities at various input voltages and various ambient temperature condition.

