

Characteristic Curve

For Three-Phase Grid-tied PV Inverter

Applicable to CPS SCA10~25KTL-T1/EU



Shanghai Chint Power System Co., Ltd.

History record:

Version	Reason for change	Instruction for change	person in charge	Time for change
V01	Preliminary version	/		
V02				
V03				

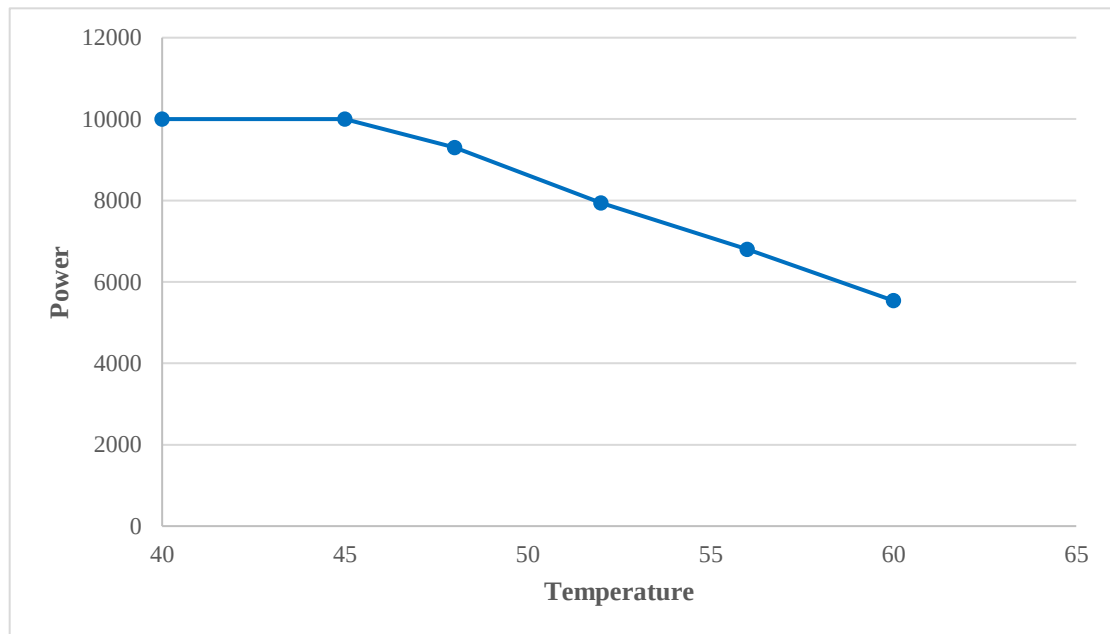
1. Scope

This document details characteristic curves of CPS SCA10~25KTL-T1/EU.

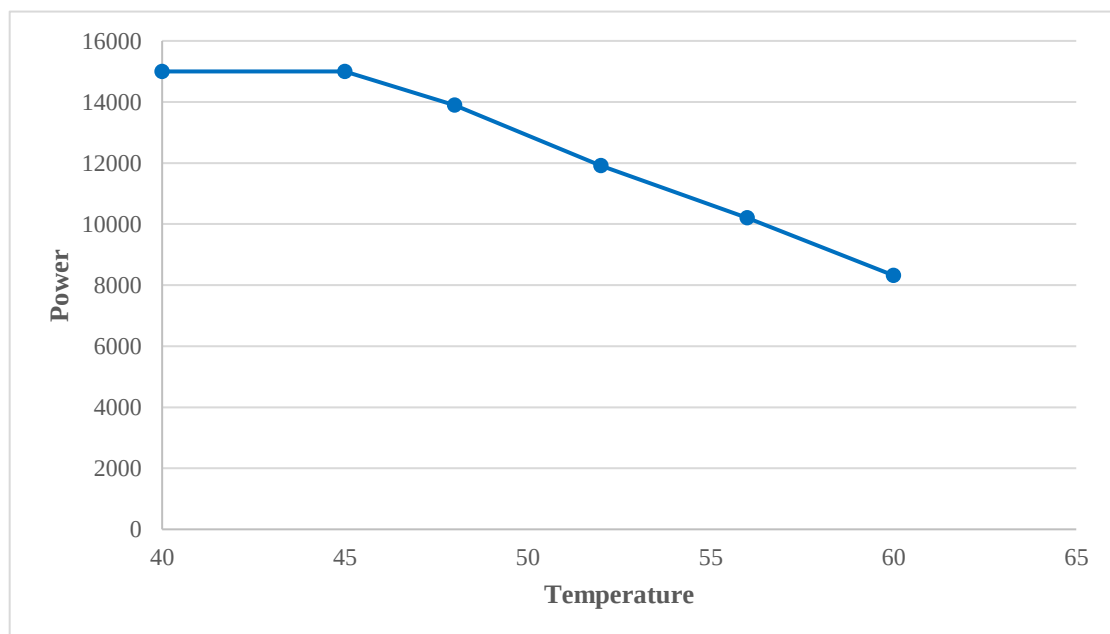
2. Characteristic Curves

2.1 Temperature Dependency Derating

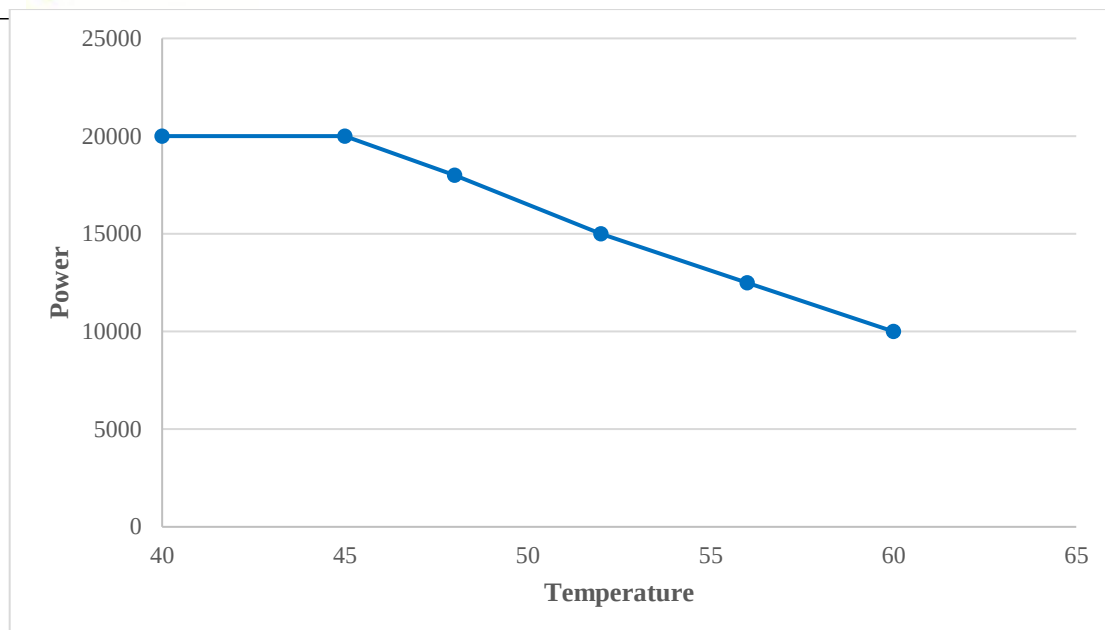
Inverter output power needs to be de-rated when installed at ambient temperature above 45°C. De-rating needs to be performed according to the chart shown below:



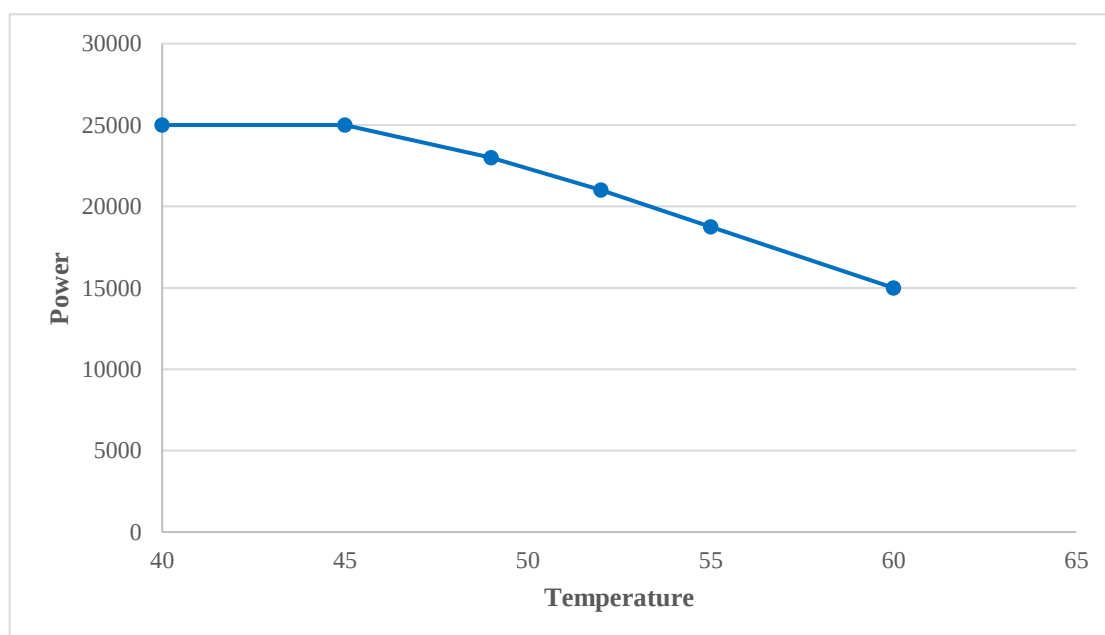
SCA10KTL-T1/EU



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SCA20KTL-T1/EU

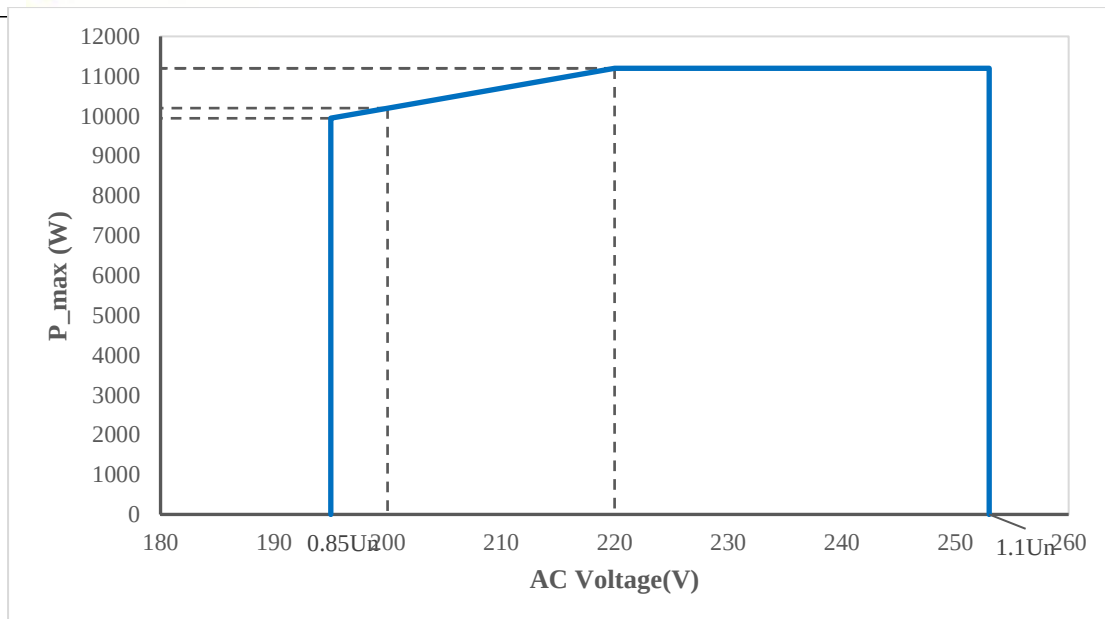


SCA25KTL-T1/EU

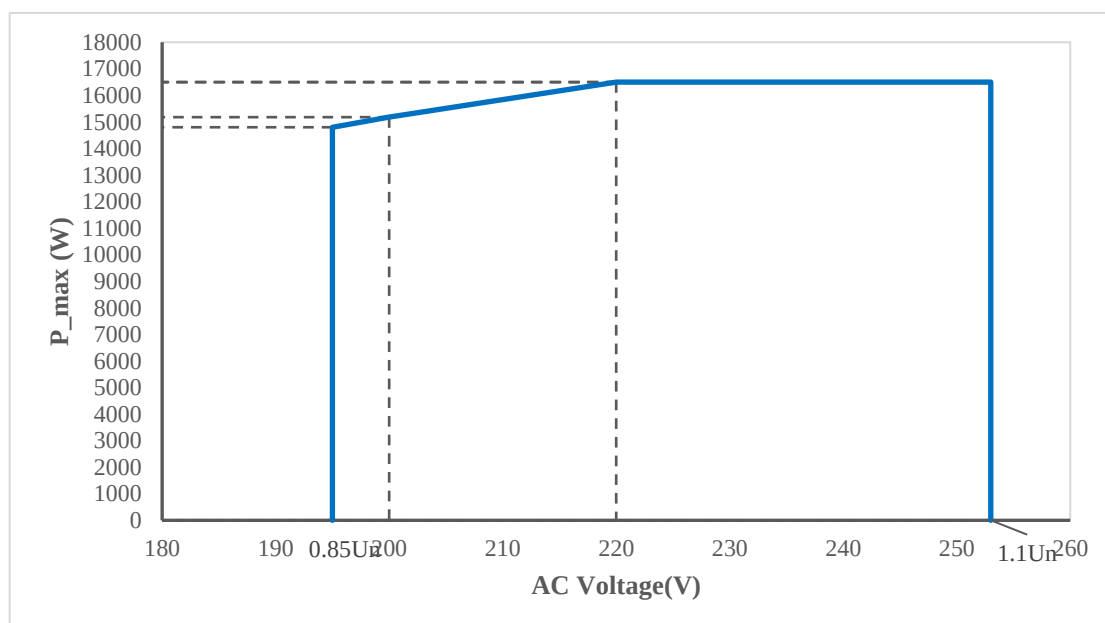
2.2 AC Output Voltage De-rating

Inverter AC output voltage operating range is $0.85U_n$ - $1.1U_n$ VAC (U_n : standard grid rated value) .

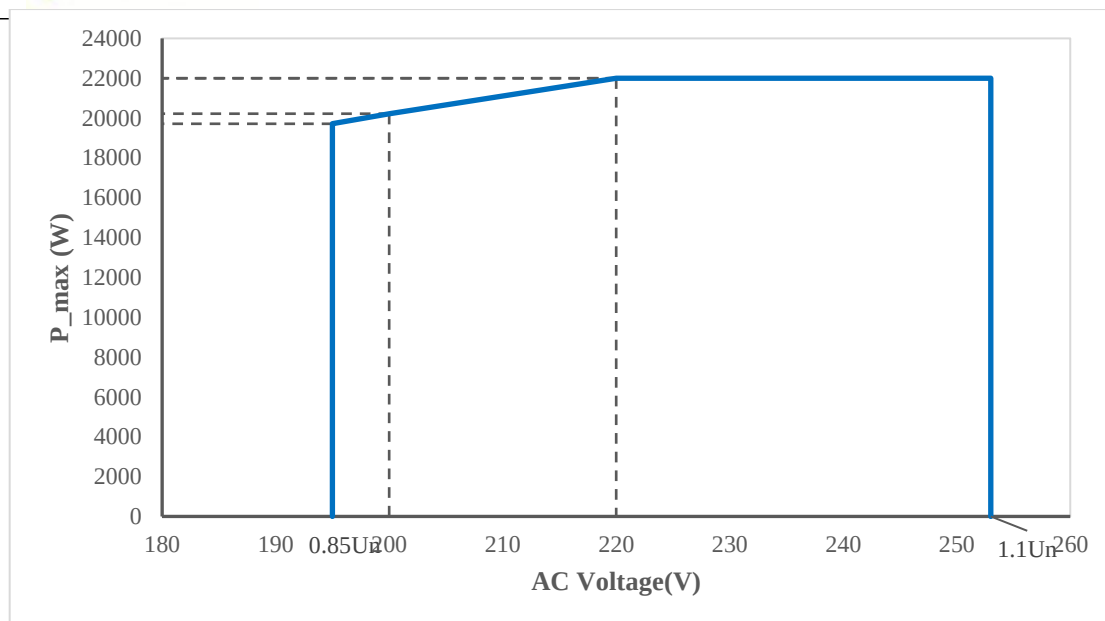
AC output voltage linear de-rating is shown in the chart below:



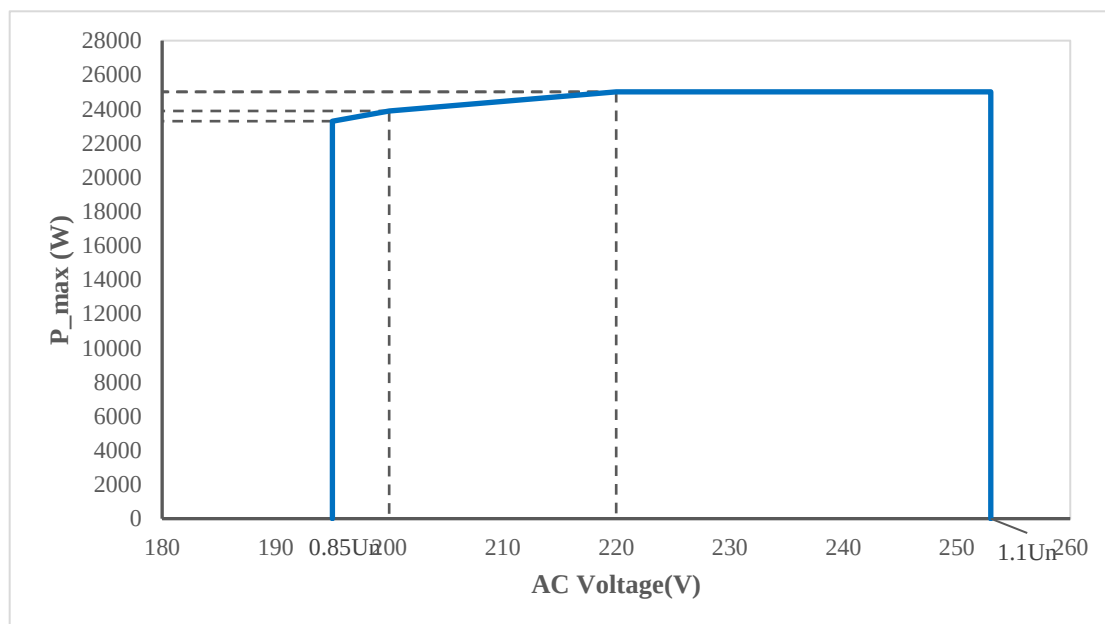
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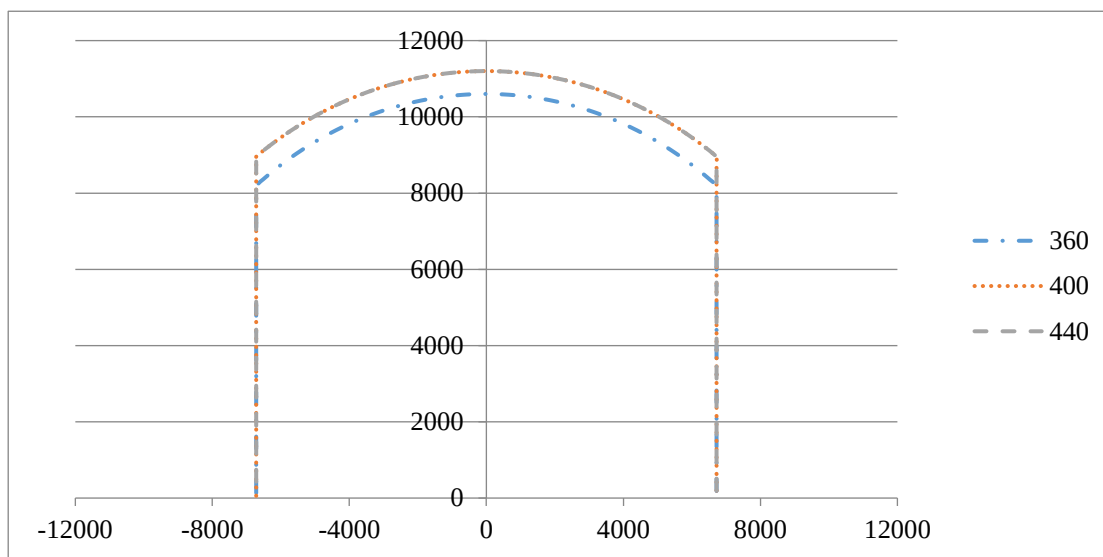


SCA20KTL-T1/EU

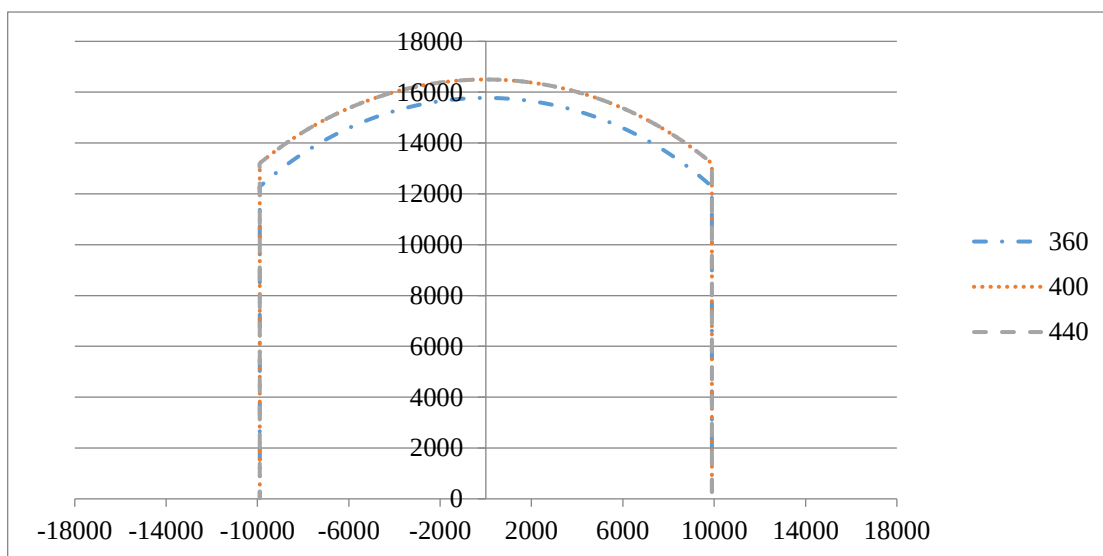


SCA25KTL-T1/EU

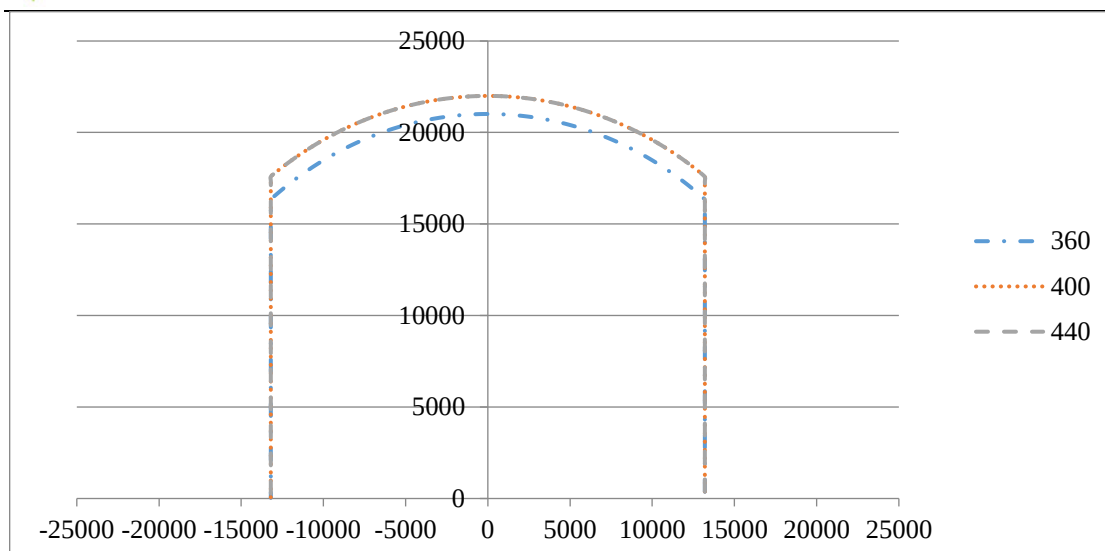
2.5 Active power vs Reactive power



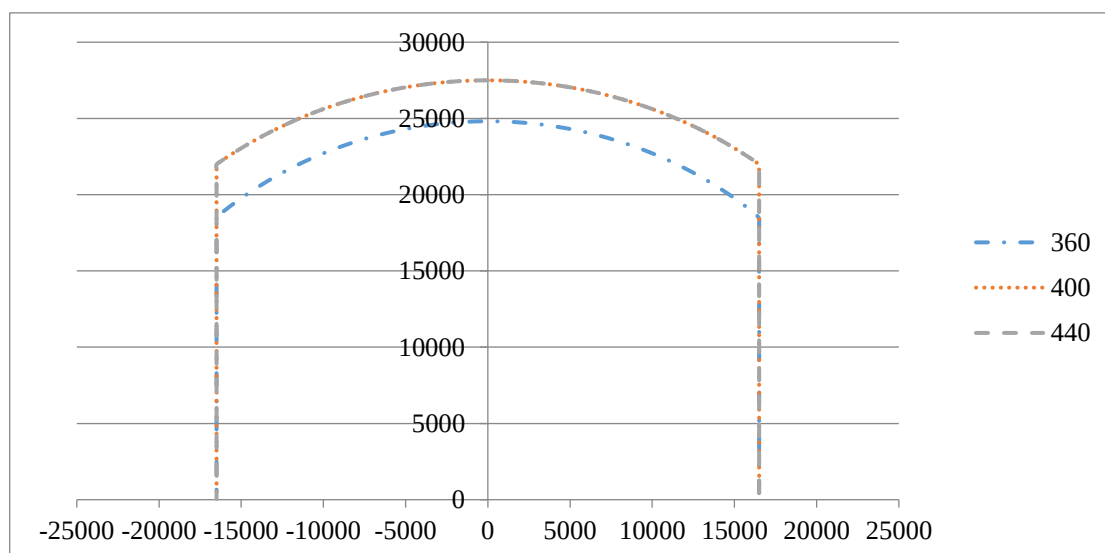
SCA10KTL-T1/EU



SCA15KTL-T1/EU

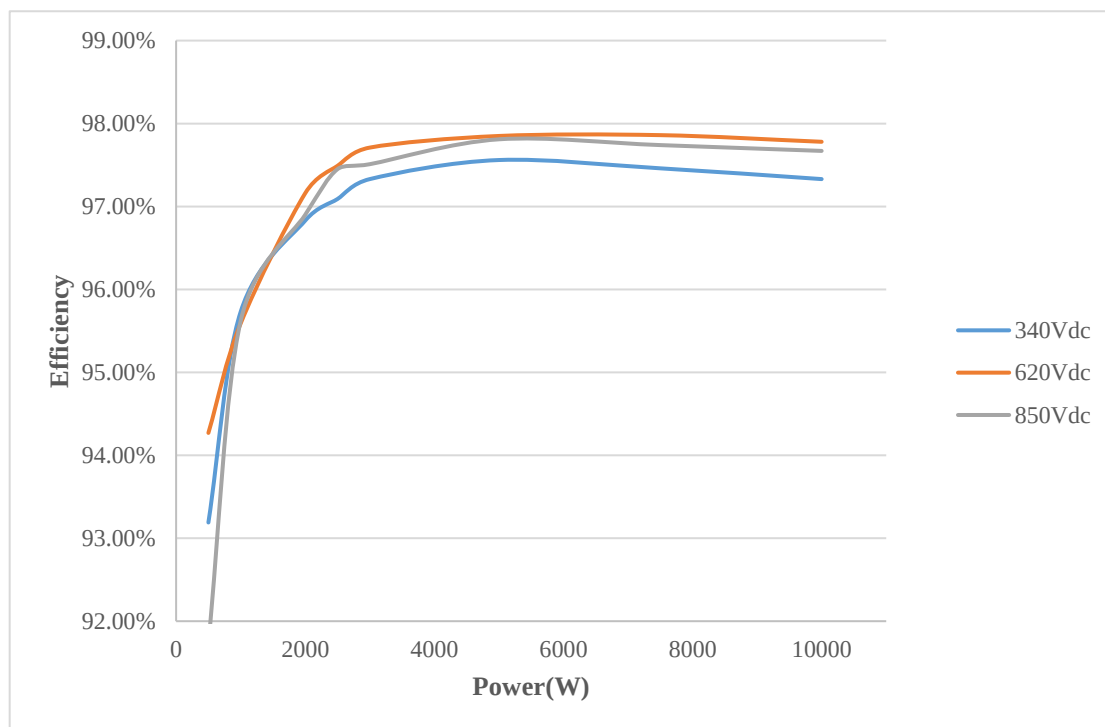


SCA20KTL-T1/EU

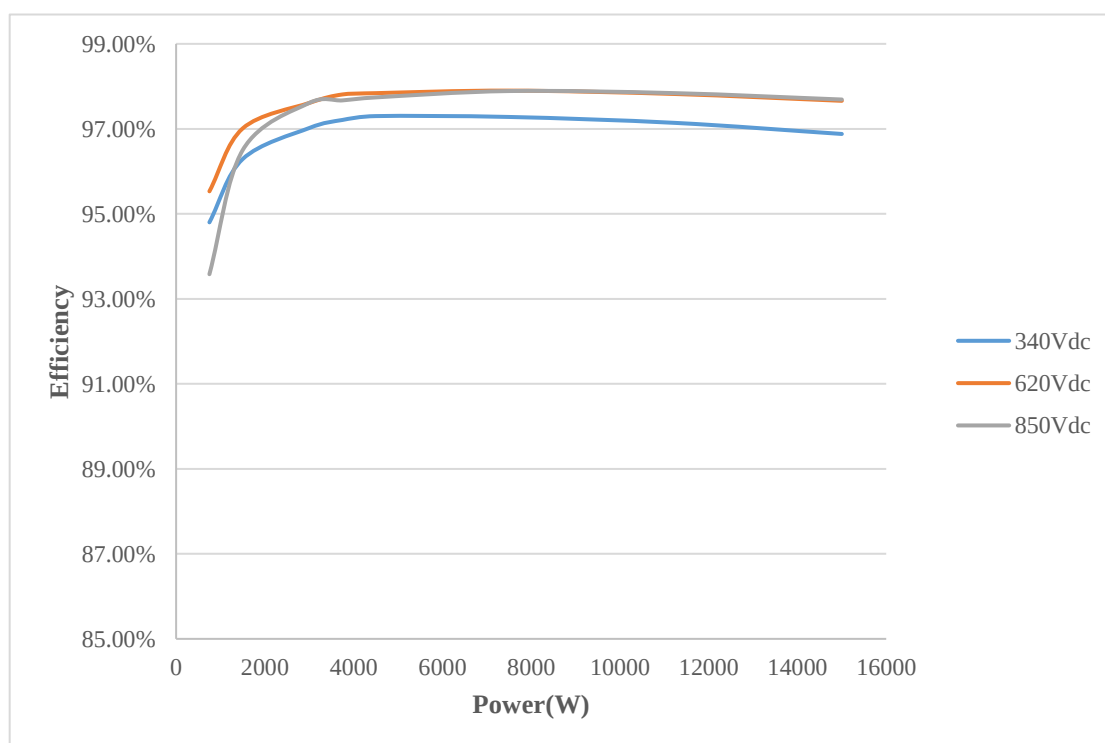


SCA25KTL-T1/EU

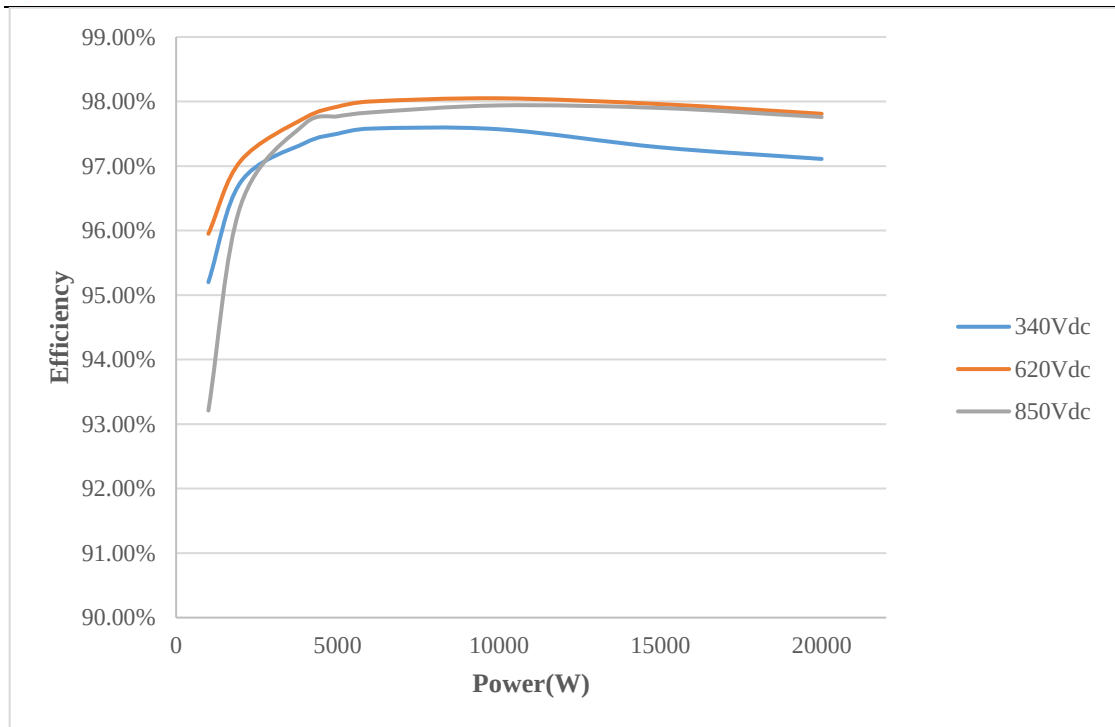
2.6 Efficiency Data



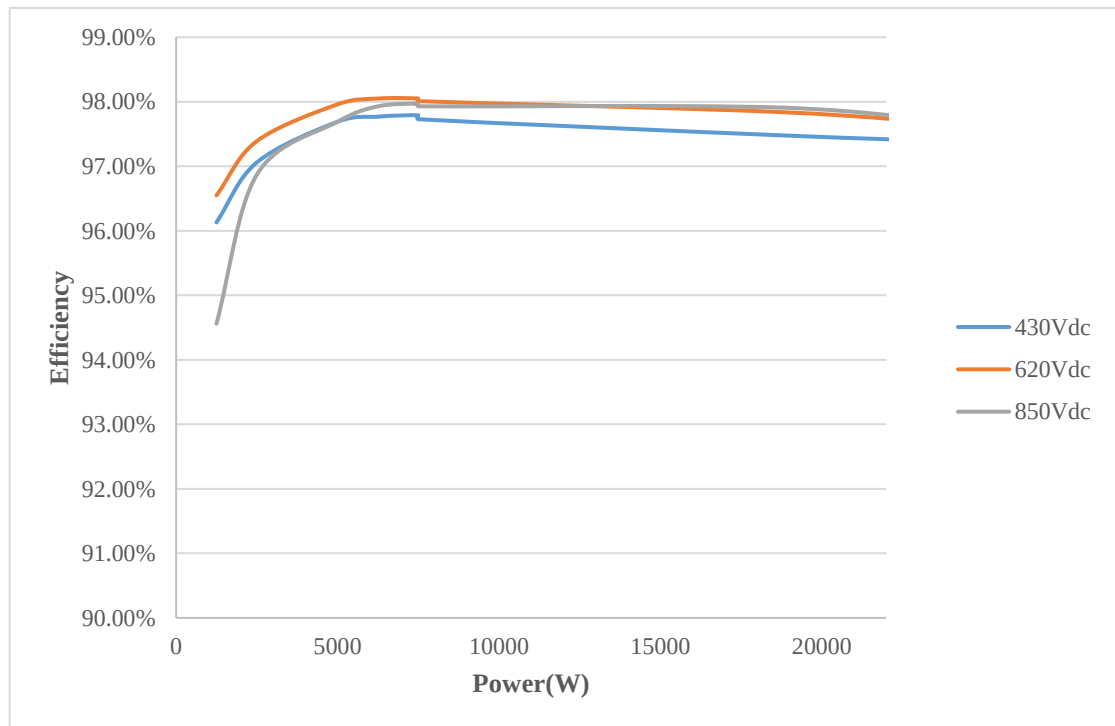
SCA10KTL-T1/EU



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