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Subject: Application Note-Maximum Input Power of Each MPPT

Revision History

Version 1.0 September 2021

Version 1.1 November 2021

Applicable products and models

SUN2000-2/3/3.68/4/4.6/5/6KTL-L1,
SUN2000-3/4/5/6/8/10KTL-M0/M1,
SUN2000-8/10/12/15/17/20KTL-M0/M2,
SUN2000-20/29.9/30/36/40KTL-M3
SUN2000-50KTL-M3
SUN2000-60KTL-M0
SUN2000-100KTL-M0/M1
SUN2000-100KTL-M2
SUN2000-115KTL-M2

Description

For Huawei inverters, maximum input power of each MPPT ($P_{mpp,max}$) can be taken into consideration for string design. For full utilization of the power generated from PV panels, it is recommended that total power of two strings connected to the same MPPT should be limited under $P_{mpp,max}$. Otherwise the inverter will still work normally, however excess power above $P_{mpp,max}$ will be clipped.

$P_{mpp,max}$ for each applicable inverter is listed in the table below.

Series	Model	$P_{mpp,max}$ (W)
SUN2000-2/3/3.68/4/4.6/5/6KTL-L1	SUN2000-2KTL-L1	6600
	SUN2000-3KTL-L1	6600
	SUN2000-3.68KTL-L1	6600
	SUN2000-4KTL-L1	6600
	SUN2000-4.6KTL-L1	6600
	SUN2000-5KTL-L1	6600
	SUN2000-6KTL-L1	6600
SUN2000-3/4/5/6/8/10KTL-M0 ¹	SUN2000-3KTL-M0	8800
	SUN2000-4KTL-M0	8800
	SUN2000-5KTL-M0	8800
	SUN2000-6KTL-M0	8800
	SUN2000-8KTL-M0	8800
	SUN2000-10KTL-M0	8800
SUN2000-3/4/5/6/8/10KTL-M1	SUN2000-3KTL-M1	8800
	SUN2000-4KTL-M1	8800
	SUN2000-5KTL-M1	8800
	SUN2000-6KTL-M1	8800
	SUN2000-8KTL-M1	8800
	SUN2000-10KTL-M1	8800
SUN2000-8/10/12/15/17/20KTL-M0	SUN2000-8KTL-M0 ²	17600
	SUN2000-10KTL-M0 ²	17600
	SUN2000-12KTL-M0	17600

	SUN2000-15KTL-M0	17600
	SUN2000-17KTL-M0	17600
	SUN2000-20KTL-M0	17600
SUN2000-8/10/12/15/17/20KTL-M2	SUN2000-8KTL-M2 ²	17600
	SUN2000-10KTL-M2 ²	17600
	SUN2000-12KTL-M2	17600
	SUN2000-15KTL-M2	17600
	SUN2000-17KTL-M2	17600
	SUN2000-20KTL-M2	17600
SUN2000-20/29.9/30/36/40KTL-M3	SUN2000-20KTL-M3	18300
	SUN2000-29.9KTL-M3	18300
	SUN2000-30KTL-M3	18300
	SUN2000-36KTL-M3	18300
	SUN2000-40KTL-M3	18300
SUN2000-50KTL-M3		18300
SUN2000-60KTL-M0		17600
SUN2000-100KTL-M0		21000
SUN2000-100KTL-M1		21000
SUN2000-100KTL-M2		21000
SUN2000-115KTL-M2		21000

1 Need to upgrade to SUN2000MA V100R001C00SPC134 or above.

2 Only available in Australia.