

# String Optimizer

# V1000-13.5 Series

	V850-13.5	V875-13.5	V900-13.5	V925-13.5	V950-13.5	V975-13.5	V1000-13.5
<b>Electrical</b>							
<b>Input</b>							
Maximum voltage per input <sup>1</sup>	V	1000	1000	1000	1000	1000	1000
Maximum current per input <sup>2</sup>	A	12.8	12.8	12.8	12.8	12.8	12.8
Maximum short-circuit current (Isc) per input	A	13.5	13.5	13.5	13.5	13.5	13.5
MPP tracking voltage range	V	190 - 900	190 - 900	190 - 900	190 - 900	190 - 900	190 - 900
Startup voltage per input	V	400	400	400	400	400	400
Number of inputs		2	2	2	2	2	2
<b>Output</b>							
Output voltage range	V	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 1000
Output voltage at full power	V	760	785	810	835	860	910
Output voltage at zero power	V	850	875	900	925	950	1000
Maximum output current	A	13.5	13.5	13.5	13.5	13.5	13.5
Maximum continuous output power	kWdc	10.0	10.3	10.7	11.0	11.3	12.0
Efficiency (max / CEC / Euro)	%	99.5 / 99.3 / 99.2					
<b>Mechanical</b>							
Input & output connector	Amphenol H4						
Dimensions	10.71" x 8.66" x 3.94" (272 mm x 220 mm x 100 mm)						
Weight	9.0 lbs. (4.1 kg)						
Ambient temperature operating range	-40 °F to +122 °F (-40 °C to +50 °C)						
Cooling	Convection						
<b>Environmental</b>							
Environmental category	Outdoor						
Pollution degree	2						
Maximum operating altitude <sup>3</sup>	9843 ft (3000 m)						
Overvoltage category	OVII						
Ingress protection	IP66 / 4X						
<b>General</b>							
Maximum system voltage	1000 V						
Compliance	ETL to UL 1741; IEC 61000-6-1, 61000-6-3, 62109; CE; Giteki 2-1-19; FCC Part 15, class A						

1. Voc at coldest design temp. Follow Ampt's design guidelines to determine the number of modules per input and max. system voltage.

2. Maximum Imp of modules on the input at standard test condition (STC) - irradiation level of 1000 W/m<sup>2</sup> at 25°C.

3. Optimizer derates above this altitude.