

String Optimizer

V1000 Series -12.8 A Models

Model		V850-12.8	V875-12.8	V900-12.8	V925-12.8	V950-12.8	V975-12.8	V1000-12.8
Electrical								
Input								
Maximum voltage per input ¹	V	1000	1000	1000	1000	1000	1000	1000
Maximum current per input ²	A	12.8	12.8	12.8	12.8	12.8	12.8	12.8
MPP tracking voltage range	V	190 - 900	190 - 900	190 - 900	190 - 900	190 - 900	190 - 900	190 - 900
Startup voltage per input	V	400	400	400	400	400	400	400
Number of inputs		2	2	2	2	2	2	2
Output								
Voltage range	V	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Maximum current	A	12.8	12.8	12.8	12.8	12.8	12.8	12.8
Max continuous power	kWdc	9.5	9.9	10.2	10.5	10.8	11.1	11.4
Efficiency (Max / CEC / Euro)	%	99.5 / 99.3 / 99.2						
Mechanical								
Input and output connector type	Amphenol H4							
Dimensions	10.71" x 8.66" x 3.94" (272mm x 220mm x 100mm)							
Weight	9.0 lbs. (4.1 kg)							
Ambient temperature operating range	-40 °F to +167 °F (-40 °C to +75 °C)							
Cooling	Convection							
Environmental								
Environmental category	Outdoor							
Pollution degree	2							
Maximum operating altitude ³	9843 ft (3000 m)							
Overvoltage category	OVII							
Ingress protection	IP 66 / 4X							
General								
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 temperature - follow Ampt's design guidelines to determine the number of modules per input and maximum system voltage.

2. Module Imp at standard test condition (STC) - irradiation level of 1000 W/m² at 25°C.

3. Optimizer derates above this altitude.

String Optimizer

V1000 Series -12 A Models

Model		V850-12	V875-12	V900-12	V925-12	V950-12	V975-12	V1000-12
Electrical								
Input								
Maximum voltage per input ¹	V	1000	1000	1000	1000	1000	1000	1000
Maximum current per input ²	A	12.3	12.3	12.3	12.3	12.3	12.3	12.3
MPP tracking voltage range	V	190 - 900	190 - 900	190 - 900	190 - 900	190 - 900	190 - 900	190 - 900
Startup voltage per input	V	400	400	400	400	400	400	400
Number of inputs		2	2	2	2	2	2	2
Output								
Voltage range	V	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Maximum current	A	12	12	12	12	12	12	12
Max continuous power	kWdc	9.0	9.3	9.6	9.9	10.2	10.5	10.8
Efficiency (Max / CEC / Euro)	%	99.5 / 99.3 / 99.2						
Mechanical								
Input and output connector type	Amphenol H4							
Dimensions	10.71" x 8.66" x 3.94" (272mm x 220mm x 100mm)							
Weight	9.0 lbs. (4.1 kg)							
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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							

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