

i13.5 String Optimizer

1000V Systems

maximum output **13.5A**

Vxxxx-i13.5-13.5 Models		V850	V875	V900	V925	V950	V975	V1000
Electrical								
Input								
Maximum voltage per input ¹	V	1000	1000	1000	1000	1000	1000	1000
Maximum current (Imp) per input ²	A	12.8	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	13.5
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								
Output voltage range	V	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Output voltage at full power	V	760	785	810	835	860	885	910
Output voltage at zero power	V	850	875	900	925	950	975	1000
Maximum output current	A	13.5	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	11.7	12.0
Efficiency (max / CEC / Euro)	%	99.5 / 99.3 / 99.2						
Mechanical								
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							
Environmental								
Environmental category	Outdoor							
Pollution degree	2							
Maximum operating altitude ³	9843 ft (3000 m)							
Overvoltage category	OVII							
Ingress protection	IP66 / 4X							
General								
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/m² at 25°C.
3. Optimizer derates above this altitude.

i13.5 String Optimizer

1000V Systems

maximum output **12.8A**

Vxxx-i13.5-12.8 Models		V850	V875	V900	V925	V950	V975	V1000
Electrical								
Input								
Maximum voltage per input ¹	V	1000	1000	1000	1000	1000	1000	1000
Maximum current (Imp) per input ²	A	12.8	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	13.5
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								
Output voltage range	V	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Output voltage at full power	V	765	790	815	840	865	890	915
Output voltage at zero power	V	850	875	900	925	950	975	1000
Maximum output current	A	12.8	12.8	12.8	12.8	12.8	12.8	12.8
Maximum continuous output power	kWdc	9.5	9.8	10.2	10.5	10.8	11.1	11.4
Efficiency (max / CEC / Euro)	%	99.5 / 99.3 / 99.2						
Mechanical								
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							
Environmental								
Environmental category	Outdoor							
Pollution degree	2							
Maximum operating altitude ³	9843 ft (3000 m)							
Overvoltage category	OVII							
Ingress protection	IP66 / 4X							
General								
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/m² at 25°C.
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i13.5 String Optimizer

1000V Systems

maximum output **12A**

Vxxx-i13.5-12 Models		V850	V875	V900	V925	V950	V975	V1000
Electrical								
Input								
Maximum voltage per input ¹	V	1000	1000	1000	1000	1000	1000	1000
Maximum current (Imp) per input ²	A	12.3	12.3	12.3	12.3	12.3	12.3	12.3
Maximum short-circuit current (Isc) per input	A	13	13	13	13	13	13	13
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								
Output voltage range	V	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Output voltage at full power	V	770	795	820	845	870	895	920
Output voltage at zero power	V	850	875	900	925	950	975	1000
Maximum output current	A	12	12	12	12	12	12	12
Maximum continuous output 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 & 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							
Environmental								
Environmental category	Outdoor							
Pollution degree	2							
Maximum operating altitude ³	9843 ft (3000 m)							
Overvoltage category	OVII							
Ingress protection	IP66 / 4X							
General								
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/m² at 25°C.
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