String Optimizer V1500-20-20 Series

Vxxxx-20-20 Models		V1350	V1375	V1400	V1425	V1450	V1475	V1500
Electrical								
Input								
Maximum voltage per input [1]	V	1500	1500	1500	1500	1500	1500	1500
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	13.3	13.3	13.3	13.3	13.3	13.3	13.3
MPP tracking voltage range	V	400 - 1270	400 - 1295	400 - 1300	400 - 1300	400 - 1300	400 - 1300	400 - 1300
Startup voltage per input	V	510	510	510	510	510	510	510
Number of inputs		2	2	2	2	2	2	2
Output								
Output voltage range	V	0 - 1350	0 - 1375	0 - 1400	0 - 1425	0 - 1450	0 - 1475	0 - 1500
Output voltage at full power	V	1270	1295	1320	1345	1370	1395	1420
Output voltage at zero power	V	1350	1375	1400	1425	1450	1475	1500
Maximum output current	A	20	20	20	20	20	20	20
Maximum continuous output power	kWdc	24.8	25.3	25.8	26.3	26.7	27.2	27.7
Efficiency (max / CEC / Euro)	%	99.6 / 99.5 / 99.4						
Mechanical								
Input & output connector		Amphenol H4						
Dimensions		13.31” x 8.66” x 3.94” (338 mm x 220 mm x 100 mm)						
Weight		11.6 lbs. (5.3 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.

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String Optimizer

V1500-20-20 Series

Vxxxx-20-20 Models		V1200	V1225	V1250	V1275	V1300	V1325
Electrical							
Input							
Maximum voltage per input [1]	V	1500	1500	1500	1500	1500	1500
Maximum current (Imp) per input [2]	A	12.8	12.8	12.8	12.8	12.8	12.8
Maximum short-circuit current (Isc) per input	A	13.3	13.3	13.3	13.3	13.3	13.3
MPP tracking voltage range	V	400 - 1120	400 - 1145	400 - 1170	400 - 1195	400 - 1220	400 - 1245
Startup voltage per input	V	510	510	510	510	510	510
Number of inputs		2	2	2	2	2	2
Output							
Output voltage range	V	0 - 1200	0 - 1225	0 - 1250	0 - 1275	0 - 1300	0 - 1325
Output voltage at full power	V	1120	1145	1170	1195	1220	1245
Output voltage at zero power	V	1200	1225	1250	1275	1300	1325
Maximum output current	A	20	20	20	20	20	20
Maximum continuous output power	kWdc	21.8	22.3	22.8	23.3	23.8	24.3
Efficiency (max / CEC / Euro)	%	99.6 / 99.5 / 99.4					
Mechanical							
Input & output connector		Amphenol H4					
Dimensions		13.31” x 8.66” x 3.94” (338 mm x 220 mm x 100 mm)					
Weight		11.6 lbs. (5.3 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					
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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.
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