

# String Optimizer

# V1500-32-20 Series

Vxxxx-32-20 Models		V1350	V1375	V1400	V1425	V1450	V1475	V1500
<b>Electrical</b>								
<b>Input</b>								
Maximum voltage per input	V	1500	1500	1500	1500	1500	1500	1500
Maximum current (Imp) per input	A	16	16	16	16	16	16	16
Maximum short-circuit current (Isc) per input	A	18	18	18	18	18	18	18
MPP tracking voltage range	V	300 - 1300	300 - 1325	300 - 1350	300 - 1375	300 - 1400	300 - 1400	300 - 1400
Startup voltage per input	V	390	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2	2
<b>Output</b>								
Output voltage range	V	0 - 1350	0 - 1375	0 - 1400	0 - 1425	0 - 1450	0 - 1475	0 - 1500
Output voltage at full power	V	1300	1325	1350	1375	1400	1425	1450
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	26.0	26.5	27.0	27.5	28.0	28.5	29.0
Efficiency (max / CEC / Euro)	%	99.5 / 99.3 / 99.2						
<b>Mechanical</b>								
Input & output connector	MC4-Evo 2							
Dimensions	18.35" x 8.66" x 3.94" (466.1 mm x 220 mm x 100 mm)							
Weight	17.8 lbs. (8.1 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	9843 ft (3000 m)							
Overvoltage category	OVII							
Ingress protection	IP66 / 4X							
<b>General</b>								
Maximum system voltage	1500 V							
Compliance	ETL to UL 1741; IEC 61000-6-1, 61000-6-3, 62109; CE; Giteki 2-1-19; FCC Part 15, class A							

Follow Ampt design guidelines to identify possible derating at high ambient temperatures or altitudes.

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# V1500-32-20 Series

Vxxxx-32-20 Models		V1200	V1225	V1250	V1275	V1300	V1325
<b>Electrical</b>							
<b>Input</b>							
Maximum voltage per input	V	1500	1500	1500	1500	1500	1500
Maximum current (Imp) per input	A	16	16	16	16	16	16
Maximum short-circuit current (Isc) per input	A	18	18	18	18	18	18
MPP tracking voltage range	V	300 - 1150	300 - 1175	300 - 1200	300 - 1225	300 - 1250	300 - 1275
Startup voltage per input	V	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2
<b>Output</b>							
Output voltage range	V	0 - 1200	0 - 1225	0 - 1250	0 - 1275	0 - 1300	0 - 1325
Output voltage at full power	V	1150	1175	1200	1225	1250	1275
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	23.0	23.5	24.0	24.5	25.0	25.5
Efficiency (max / CEC / Euro)	%	99.5 / 99.3 / 99.2					
<b>Mechanical</b>							
Input & output connector	MC4-Evo 2						
Dimensions	18.35" x 8.66" x 3.94" (466.1 mm x 220 mm x 100 mm)						
Weight	17.8 lbs. (8.1 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	9843 ft (3000 m)						
Overvoltage category	OVII						
Ingress protection	IP66 / 4X						
<b>General</b>							
Maximum system voltage	1500 V						
Compliance	ETL to UL 1741; IEC 61000-6-1, 61000-6-3, 62109; CE; Giteki 2-1-19; FCC Part 15, class A						

Follow Ampt design guidelines to identify possible derating at high ambient temperatures or altitudes.