

# String Optimizer

# V1500-32-28 Series

Vxxxx-32-28 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	22.4	22.4	22.4	22.4	22.4	22.4	22.4
Maximum short-circuit current (Isc) per input	A	24.4	24.4	24.4	24.4	24.4	24.4	24.4
MPP tracking voltage range	V	300 - 1280	300 - 1305	300 - 1330	300 - 1355	300 - 1380	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	1280	1305	1330	1355	1380	1405	1430
Output voltage at zero power	V	1350	1375	1400	1425	1450	1475	1500
Maximum output current	A	28	28	28	28	28	28	28
Maximum continuous output power	kWdc	35.8	36.5	37.2	37.9	38.6	39.3	40.0
Efficiency (max / CEC / Euro)	%	99.5 / 99.4 / 99.3						
<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.

# String Optimizer

# V1500-32-28 Series

Vxxx-32-28 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	22.4	22.4	22.4	22.4	22.4	22.4
Maximum short-circuit current (Isc) per input	A	24.4	24.4	24.4	24.4	24.4	24.4
MPP tracking voltage range	V	300 - 1130	300 - 1155	300 - 1180	300 - 1205	300 - 1230	300 - 1255
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	1130	1155	1180	1205	1230	1255
Output voltage at zero power	V	1200	1225	1250	1275	1300	1325
Maximum output current	A	28	28	28	28	28	28
Maximum continuous output power	kWdc	31.6	32.3	33.0	33.7	34.4	35.1
Efficiency (max / CEC / Euro)	%	99.5 / 99.4 / 99.3					
<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.