

# String Optimizer

# V1500-32-30 Series

Vxxx-32-30 Models		V1375	V1400	V1425	V1450	V1475	V1500	V1525	V1550
<b>Electrical</b>									
<b>Input</b>									
Maximum voltage per input	V	1500	1500	1500	1500	1500	1500	1500	1500
Maximum current (Imp) per input	A	24	24	24	24	24	24	24	24
Maximum short-circuit current (Isc) per input	A	26	26	26	26	26	26	26	26
MPP tracking voltage range	V	300 - 1300	300 - 1325	300 - 1350	300 - 1375	300 - 1400	300 - 1400	300 - 1400	300 - 1400
Startup voltage per input	V	390	390	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2	2	2
<b>Output</b>									
Output voltage range	V	0 - 1375	0 - 1400	0 - 1425	0 - 1450	0 - 1475	0 - 1500	0 - 1525	0 - 1550
Output voltage at full power	V	1300	1325	1350	1375	1400	1425	1450	1475
Output voltage at zero power	V	1375	1400	1425	1450	1475	1500	1525	1550
Maximum output current	A	30	30	30	30	30	30	30	30
Maximum continuous output power	kWdc	38.8	39.6	40.3	41.1	41.8	42.6	43.3	44.1
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>									
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

# V1500-32-30 Series

Vxxx-32-30 Models		V1200	V1225	V1250	V1275	V1300	V1325	V1350
<b>Electrical</b>								
<b>Input</b>								
Maximum voltage per input	V	1500	1500	1500	1500	1500	1500	1500
Maximum current (Imp) per input	A	24	24	24	24	24	24	24
Maximum short-circuit current (Isc) per input	A	26	26	26	26	26	26	26
MPP tracking voltage range	V	300 - 1125	300 - 1150	300 - 1175	300 - 1200	300 - 1225	300 - 1250	300 - 1275
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 - 1200	0 - 1225	0 - 1250	0 - 1275	0 - 1300	0 - 1325	0 - 1350
Output voltage at full power	V	1125	1150	1175	1200	1225	1250	1275
Output voltage at zero power	V	1200	1225	1250	1275	1300	1325	1350
Maximum output current	A	30	30	30	30	30	30	30
Maximum continuous output power	kWdc	33.6	34.3	35.1	35.8	36.6	37.3	38.1
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>								
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.