

String Optimizer

V1500-32-24 Series

Vxxx-32-24 Models		V1375	V1400	V1425	V1450	V1475	V1500	V1525	V1550
Electrical									
Input									
Maximum voltage per input	V	1500	1500	1500	1500	1500	1500	1500	1500
Maximum current (Imp) per input	A	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
Maximum short-circuit current (Isc) per input	A	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
MPP tracking voltage range	V	300 - 1315	300 - 1340	300 - 1365	300 - 1390	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
Output									
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	1315	1340	1365	1390	1415	1440	1465	1490
Output voltage at zero power	V	1375	1400	1425	1450	1475	1500	1525	1550
Maximum output current	A	24	24	24	24	24	24	24	24
Maximum continuous output power	kWdc	31.4	32.0	32.6	33.2	33.8	34.4	35.0	35.6
Efficiency (max / CEC / Euro)	%	99.5 / 99.4 / 99.3							
Mechanical									
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								
Environmental									
Environmental category	Outdoor								
Pollution degree	2								
Maximum operating altitude	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								

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

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Vxxx-32-24 Models		V1200	V1225	V1250	V1275	V1300	V1325	V1350
Electrical								
Input								
Maximum voltage per input	V	1500	1500	1500	1500	1500	1500	1500
Maximum current (Imp) per input	A	19.2	19.2	19.2	19.2	19.2	19.2	19.2
Maximum short-circuit current (Isc) per input	A	21.2	21.2	21.2	21.2	21.2	21.2	21.2
MPP tracking voltage range	V	300 - 1140	300 - 1165	300 - 1190	300 - 1215	300 - 1240	300 - 1265	300 - 1290
Startup voltage per input	V	390	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2	2
Output								
Output voltage range	V	0 - 1200	0 - 1225	0 - 1250	0 - 1275	0 - 1300	0 - 1325	0 - 1350
Output voltage at full power	V	1140	1165	1190	1215	1240	1265	1290
Output voltage at zero power	V	1200	1225	1250	1275	1300	1325	1350
Maximum output current	A	24	24	24	24	24	24	24
Maximum continuous output power	kWdc	27.2	27.8	28.4	29.0	29.6	30.2	30.8
Efficiency (max / CEC / Euro)	%	99.5 / 99.4 / 99.3						
Mechanical								
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							
Environmental								
Environmental category	Outdoor							
Pollution degree	2							
Maximum operating altitude	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							

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