

String Optimizer

V1500-32-25 Series

Vxxxx-32-25 Models		V1350	V1375	V1400	V1425	V1450	V1475	V1500
Electrical								
Input								
Maximum voltage per input	V	1500	1500	1500	1500	1500	1500	1500
Maximum current (Imp) per input	A	20	20	20	20	20	20	20
Maximum short-circuit current (Isc) per input	A	22	22	22	22	22	22	22
MPP tracking voltage range	V	300 - 1290	300 - 1315	300 - 1340	300 - 1365	300 - 1390	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
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	1290	1315	1340	1365	1390	1415	1440
Output voltage at zero power	V	1350	1375	1400	1425	1450	1475	1500
Maximum output current	A	25	25	25	25	25	25	25
Maximum continuous output power	kWdc	32.2	32.8	33.5	34.1	34.7	35.3	36.0
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								
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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V1500-32-25 Series

Vxxx-32-25 Models		V1200	V1225	V1250	V1275	V1300	V1325
Electrical							
Input							
Maximum voltage per input	V	1500	1500	1500	1500	1500	1500
Maximum current (Imp) per input	A	20	20	20	20	20	20
Maximum short-circuit current (Isc) per input	A	22	22	22	22	22	22
MPP tracking voltage range	V	300 - 1140	300 - 1165	300 - 1190	300 - 1215	300 - 1240	300 - 1265
Startup voltage per input	V	390	390	390	390	390	390
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	1140	1165	1190	1215	1240	1265
Output voltage at zero power	V	1200	1225	1250	1275	1300	1325
Maximum output current	A	25	25	25	25	25	25
Maximum continuous output power	kWdc	28.5	29.1	29.7	30.3	31.0	31.6
Efficiency (max / CEC / Euro)	%	99.5 / 99.4 / 99.3					
Mechanical							
Input & output connector	MC4-Evo 2						
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General							
Maximum system voltage	1500 V						
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