

String Optimizer

V1500-32-28 Series

Vxxx-32-28 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	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.3
Maximum short-circuit current (Isc) per input	A	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.3
MPP tracking voltage range	V	300 - 1305	300 - 1330	300 - 1355	300 - 1380	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	1305	1330	1355	1380	1405	1430	1455	1480
Output voltage at zero power	V	1375	1400	1425	1450	1475	1500	1525	1550
Maximum output current	A	28	28	28	28	28	28	28	27.8
Maximum continuous output power	kWdc	36.4	37.1	37.8	38.5	39.2	39.9	40.6	41.1
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-32-28 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	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 - 1130	300 - 1155	300 - 1180	300 - 1205	300 - 1230	300 - 1255	300 - 1280
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	1130	1155	1180	1205	1230	1255	1280
Output voltage at zero power	V	1200	1225	1250	1275	1300	1325	1350
Maximum output current	A	28	28	28	28	28	28	28
Maximum continuous output power	kWdc	31.5	32.2	32.9	33.6	34.3	35.0	35.7
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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