

String Optimizer

V1000-32-25 Series

Vxxx-32-25 Models		V900	V925	V950	V975	V1000
Electrical						
Input						
Maximum voltage per input	V	1000	1000	1000	1000	1000
Maximum current (Imp) per input	A	20	20	20	20	20
Maximum short-circuit current (Isc) per input	A	22	22	22	22	22
MPP tracking voltage range	V	300 - 840	300 - 865	300 - 890	300 - 915	300 - 940
Startup voltage per input	V	390	390	390	390	390
Number of inputs		2	2	2	2	2
Output						
Output voltage range	V	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Output voltage at full power	V	840	865	890	915	940
Output voltage at zero power	V	900	925	950	975	1000
Maximum output current	A	25	25	25	25	25
Maximum continuous output power	kWdc	21.0	21.6	22.2	22.8	23.5
Efficiency (max / CEC / Euro)	%	99.4 / 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	1000 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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V1000-32-25 Series

Vxxx-32-25 Models		V800	V825	V850	V875
Electrical					
Input					
Maximum voltage per input	V	1000	1000	1000	1000
Maximum current (Imp) per input	A	20	20	20	20
Maximum short-circuit current (Isc) per input	A	22	22	22	22
MPP tracking voltage range	V	300 - 740	300 - 765	300 - 790	300 - 815
Startup voltage per input	V	390	390	390	390
Number of inputs		2	2	2	2
Output					
Output voltage range	V	0 - 800	0 - 825	0 - 850	0 - 875
Output voltage at full power	V	740	765	790	815
Output voltage at zero power	V	800	825	850	875
Maximum output current	A	25	25	25	25
Maximum continuous output power	kWdc	18.5	19.1	19.7	20.3
Efficiency (max / CEC / Euro)	%	99.4 / 99.4 / 99.3			
Mechanical					
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Ingress protection	IP66 / 4X				
General					
Maximum system voltage	1000 V				
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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