

# String Optimizer

# V1000-32-28 Series

Vxxx-32-28 Models		V800	V825	V850	V875	V900	V925	V950	V975	V1000
<b>Electrical</b>										
<b>Input</b>										
Maximum voltage per input	V	1000	1000	1000	1000	1000	1000	1000	1000	1000
Maximum current (Imp) per input	A	22.4	22.4	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	24.4	24.4
MPP tracking voltage range	V	300 - 730	300 - 755	300 - 780	300 - 805	300 - 830	300 - 855	300 - 880	300 - 905	300 - 930
Startup voltage per input	V	390	390	390	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2	2	2	2
<b>Output</b>										
Output voltage range	V	0 - 800	0 - 825	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Output voltage at full power	V	730	755	780	805	830	855	880	905	930
Output voltage at zero power	V	800	825	850	875	900	925	950	975	1000
Maximum output current	A	28	28	28	28	28	28	28	28	28
Maximum continuous output power	kWdc	20.3	21.0	21.7	22.4	23.1	23.8	24.5	25.2	25.9
Efficiency (max / CEC / Euro)	%	99.4 / 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.