

String Optimizer

V600-32-32 Series

Vxxx-32-32 Models		V525	V550	V575	V600
Electrical					
Input					
Maximum voltage per input	V	600	600	600	600
Maximum current (Imp) per input	A	24	24	24	24
Maximum short-circuit current (Isc) per input	A	26	26	26	26
MPP tracking voltage range	V	300 - 445	300 - 470	300 - 495	300 - 520
Startup voltage per input	V	390	390	390	390
Number of inputs		2	2	2	2
Output					
Output voltage range	V	0 - 525	0 - 550	0 - 575	0 - 600
Output voltage at full power	V	445	470	495	520
Output voltage at zero power	V	525	550	575	600
Maximum output current	A	32	32	32	32
Maximum continuous output power	kWdc	14.2	15.0	15.8	16.6
Efficiency (max / CEC / Euro)	%	99.3 / 99.3 / 99.2			
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	600 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.