String Optimizer

V750-20-16 Series

Vxxxx-20-16 Models		V650	V675	V700	V725	V750
Electrical						
Input						
Maximum voltage per input [1]	V	750	750	750	750	750
Maximum current per input [2]	A	12.3	12.3	12.3	12.3	12.3
Maximum short-circuit current (Isc) per input	A	13.3	13.3	13.3	13.3	13.3
MPP tracking voltage range	V	400 - 585	400 - 610	400 - 635	400 - 660	400 - 685
Startup voltage per input	V	510	510	510	510	510
Number of inputs		2	2	2	2	2
Output						
Output voltage range	V	0 - 650	0 - 675	0 - 700	0 - 725	0 - 750
Output voltage at full power	V	585	610	635	660	685
Output voltage at zero power	V	650	675	700	725	750
Maximum output current	A	16	16	16	16	16
Maximum continuous output power	kWdc	9.1	9.5	9.9	10.3	10.7
Efficiency (max, CEC, Euro)	%	99.5 / 99.3 / 99.2				
Mechanical						
Input & output connector		Amphenol H4				
Dimensions		13.31” x 8.66” x 3.94” (338 mm x 220 mm x 100 mm)				
Weight		11.6 lbs. (5.3 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 [3]		9843 ft (3000 m)				
Overvoltage category		OVII				
Ingress protection		IP66 / 4X				
General						
Maximum system voltage		750 V				
Compliance		ETL to UL 1741; IEC 61000-6-1, 61000-6-3, 62109; CE; Giteki 2-1-19; FCC Part 15, class A				

1. Voc at coldest design temp. Follow Ampt’s design guidelines to determine the number of modules per input and max. system voltage.
2. Maximum Imp of modules on the input at standard test condition (STC) - irradiation level of 1000 W/m^2 at 25°C.
3. Optimizer derates above this altitude.

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