

String Optimizer

V600 Series

Model		V425-12	V450-12	V490-12	V570-12	V600-12
Electrical						
Input						
Maximum voltage per input ¹	V	585	585	585	585	585
Maximum current per input ²	A	11	11	11	11	11
MPP tracking voltage range	V	200 - 460	200 - 460	200 - 460	200 - 460	200 - 460
Number of inputs		2	2	2	2	2
Output						
Voltage range	V	0 - 425	0 - 450	0 - 490	0 - 570	0 - 600
Maximum current	A	12	12	12	12	12
Max continuous power	kWdc	4.9	5.2	5.7	6.3	6.8
Efficiency (Max / CEC / Euro)	%	99.4 / 99.1 / 99.0				
Mechanical						
Input and output connector type	Amphenol H4					
Dimensions	10.19" x 8.66" x 3.15" (259mm x 220mm x 80mm)					
Weight	8.4 lbs. (3.8 kg)					
Ambient temperature operating range	-40 °F to +167 °F (-40 °C to +75 °C)					
Cooling	Convection					
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					
Ingress protection	IP 66					

1. Voc at coldest design temperature - follow Ampt's design guidelines to determine the number of modules per input and maximum system voltage.

2. Module Imp at standard test condition (STC) - irradiation level of 1000 W/m² at 25°C.