

Model		V425-12	V570-12	V590-12
<b>Electrical</b>				
<b>Input</b>				
Maximum voltage per input <sup>1</sup>	V	585	585	585
Maximum current per input <sup>2</sup>	A	11	11	11
MPP tracking voltage range	V	200 - 460	200 - 460	200 - 460
Startup voltage per input	V	210	210	210
Number of inputs		2	2	2
<b>Output</b>				
Voltage range	V	0 - 425	0 - 570	0 - 590
Maximum current	A	12	12	12
Max continuous power	kWdc	4.7	6.3	6.7
Efficiency (Max / CEC / Euro)	%		99.4 / 99.1 / 99.0	
<b>Mechanical</b>				
Input and output connector type		Amphenol H4		
Dimensions		10.19" x 8.66" x 3.15" (259mm x 220mm x 80mm)		
Weight		7.4 lbs. (3.4 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 <sup>3</sup>		9843 ft (3000 m)		
Overvoltage category		OVII		
Ingress protection		IP 66 / 4X		
<b>General</b>				
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		

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/m<sup>2</sup> at 25°C.

3. Optimizer derates above this altitude.