

i12 String Optimizer

600V Systems

maximum output **12A**

Vxxx-i12-12 models		V425	V570	V600
Electrical				
Input				
Maximum voltage per input	V	585	585	585
Maximum current (Imp) per input	A	11	11	11
Maximum short-circuit current (Isc) per input	A	12	12	12
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
Output				
Output voltage range	V	0 - 425	0 - 570	0 - 600
Maximum output voltage at full power	V	405	555	585
Output voltage at zero power	V	425	570	600
Maximum output current	A	12	12	12
Maximum continuous output power	kWdc	4.8	6.3	6.8
Efficiency (max / CEC / Euro)	%		99.4 / 99.1 / 99.0	
Mechanical				
Input & output connector			Amphenol H4	
Dimensions			10.19" x 8.66" x 3.15" (259 mm x 220 mm x 80 mm)	
Weight			7.4 lbs. (3.4 kg)	
Ambient temperature operating range			-40 °F – 122 °F (-40 °C – 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				
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.