

i20 String Optimizer

750V Systems

maximum output **20A**

Vxxx-i20-20 models		V650	V675	V700	V725	V750
Electrical						
Input						
Maximum voltage per input	V	750	750	750	750	750
Maximum current (Imp) per input	A	12.8	12.8	12.8	12.8	12.8
Maximum short-circuit current (Isc) per input	A	13.3	13.3	13.3	13.3	13.3
MPP tracking voltage range	V	400 - 570	400 - 595	400 - 620	400 - 645	400 - 670
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
Maximum output voltage at full power	V	570	595	620	645	670
Output voltage at zero power	V	650	675	700	725	750
Maximum output current	A	20	20	20	20	20
Maximum continuous output power	kWdc	11.3	11.8	12.3	12.8	13.3
Efficiency (max / CEC / Euro)	%			99.5 / 99.3 / 99.2		
Mechanical						
Input & output connector				Stäubli MC4-Evo 2		
Dimensions				12.13" x 9.45" x 4.26" (308.1 mm x 240 mm x 108.2 mm)		
Weight				11.8 lbs. (5.4 kg)		
Ambient temperature operating range				-40 °F – 131 °F (-40 °C – 55 °C)		
Cooling				Convection		
Environmental						
Environmental category				Outdoor		
Pollution degree				2		
Maximum operating altitude				9843 ft (3000 m)		
Overvoltage category				OVII		
Ingress protection				IP67 / NEMA 6		
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.

i20 String Optimizer

750V Systems

maximum output **16A**

Vxxx-i20-16 models		V650	V675	V700	V725	V750
Electrical						
Input						
Maximum voltage per input	V	750	750	750	750	750
Maximum current (Imp) per input	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
Maximum 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	9.3	9.7	10.1	10.5	10.9
Efficiency (max / CEC / Euro)	%	99.5 / 99.3 / 99.2				
Mechanical						
Input & output connector	Stäubli MC4-Evo 2					
Dimensions	12.13" x 9.45" x 4.26" (308.1 mm x 240 mm x 108.2 mm)					
Weight	11.8 lbs. (5.4 kg)					
Ambient temperature operating range	-40 °F – 131 °F (-40 °C – 55 °C)					
Cooling	Convection					
Environmental						
Environmental category	Outdoor					
Pollution degree	2					
Maximum operating altitude	9843 ft (3000 m)					
Overvoltage category	OVII					
Ingress protection	IP67 / NEMA 6					
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.