

i20 String Optimizer

750V Systems

maximum output **20A**

Vxxx-i20-20 Models		V650	V675	V700	V725	V750
Electrical						
Input						
Maximum voltage per input ¹	V	750	750	750	750	750
Maximum current (Imp) per input ²	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
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	11.1	11.6	12.0	12.5	13.0
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						
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/m² at 25°C.
3. Optimizer derates above this altitude.

i20 String Optimizer

750V Systems

maximum output **16A**

Vxxx-i20-16 Models		V650	V675	V700	V725	V750
Electrical						
Input						
Maximum voltage per input ¹	V	750	750	750	750	750
Maximum current (Imp) 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						
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/m² at 25°C.
3. Optimizer derates above this altitude.