

i13.5 String Optimizer

750V Systems

maximum output **13.5A**

Vxxx-i13.5-13.5 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	13.5	13.5	13.5	13.5	13.5
MPP tracking voltage range	V	190 – 700	190 – 700	190 – 700	190 – 700	190 – 700
Startup voltage per input	V	400	400	400	400	400
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	560	585	610	635	660
Output voltage at zero power	V	650	675	700	725	750
Maximum output current	A	13.5	13.5	13.5	13.5	13.5
Maximum continuous output power	kWdc	7.5	7.8	8.2	8.5	8.8
Efficiency (max / CEC / Euro)	%	99.5 / 99.3 / 99.2				
Mechanical						
Input & output connector	Amphenol H4					
Dimensions	10.71" x 8.66" x 3.94" (272 mm x 220 mm x 100 mm)					
Weight	9.0 lbs. (4.1 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.

i13.5 String Optimizer

750V Systems

maximum output **12.8A**

Vxxx-i13.5-12.8 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	13.5	13.5	13.5	13.5	13.5
MPP tracking voltage range	V	190 – 700	190 – 700	190 – 700	190 – 700	190 – 700
Startup voltage per input	V	400	400	400	400	400
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	565	590	615	640	665
Output voltage at zero power	V	650	675	700	725	750
Maximum output current	A	12.8	12.8	12.8	12.8	12.8
Maximum continuous output power	kWdc	7.1	7.5	7.8	8.1	8.4
Efficiency (max / CEC / Euro)	%	99.5 / 99.3 / 99.2				
Mechanical						
Input & output connector	Amphenol H4					
Dimensions	10.71" x 8.66" x 3.94" (272 mm x 220 mm x 100 mm)					
Weight	9.0 lbs. (4.1 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					

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i13.5 String Optimizer

750V Systems

maximum output **12A**

Vxxx-i13.5-12 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	13	13	13	13
MPP tracking voltage range	V	190 – 700	190 – 700	190 – 700	190 – 700	190 – 700
Startup voltage per input	V	400	400	400	400	400
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	12	12	12	12	12
Maximum continuous output power	kWdc	6.8	7.1	7.4	7.7	8.0
Efficiency (max / CEC / Euro)	%	99.5 / 99.3 / 99.2				
Mechanical						
Input & output connector	Amphenol H4					
Dimensions	10.71" x 8.66" x 3.94" (272 mm x 220 mm x 100 mm)					
Weight	9.0 lbs. (4.1 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.