

# i13.5 String Optimizer

## 600V Systems

maximum output **13.5A**

Vxxx-i13.5-13.5 models		V550	V575	V600
<b>Electrical</b>				
<b>Input</b>				
Maximum voltage per input	V	600	600	600
Maximum current (Imp) per input	A	12.8	12.8	12.8
Maximum short-circuit current (Isc) per input	A	13.5	13.5	13.5
MPP tracking voltage range	V	190 – 585	190 – 585	190 – 585
Startup voltage per input	V	400	400	400
Number of inputs		2	2	2
<b>Output</b>				
Output voltage range	V	0 - 550	0 - 575	0 - 600
Maximum output voltage at full power	V	460	485	510
Output voltage at zero power	V	550	575	600
Maximum output current	A	13.5	13.5	13.5
Maximum continuous output power	kWdc	6.1	6.5	6.8
Efficiency (max / CEC / Euro)	%		99.5 / 99.3 / 99.2	
<b>Mechanical</b>				
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	
<b>Environmental</b>				
Environmental category			Outdoor	
Pollution degree			2	
Maximum operating altitude			9843 ft (3000 m)	
Overvoltage category			OVII	
Ingress protection			IP66 / 4X	
<b>General</b>				
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

## 600V Systems

maximum output **12.8A**

Vxxx-i13.5-12.8 models		V550	V575	V600
<b>Electrical</b>				
<b>Input</b>				
Maximum voltage per input	V	600	600	600
Maximum current (Imp) per input	A	12.8	12.8	12.8
Maximum short-circuit current (Isc) per input	A	13.5	13.5	13.5
MPP tracking voltage range	V	190 – 585	190 – 585	190 – 585
Startup voltage per input	V	400	400	400
Number of inputs		2	2	2
<b>Output</b>				
Output voltage range	V	0 - 550	0 - 575	0 - 600
Maximum output voltage at full power	V	465	490	515
Output voltage at zero power	V	550	575	600
Maximum output current	A	12.8	12.8	12.8
Maximum continuous output power	kWdc	5.9	6.2	6.5
Efficiency (max / CEC / Euro)	%		99.5 / 99.3 / 99.2	
<b>Mechanical</b>				
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	
<b>Environmental</b>				
Environmental category			Outdoor	
Pollution degree			2	
Maximum operating altitude			9843 ft (3000 m)	
Overvoltage category			OVII	
Ingress protection			IP66 / 4X	
<b>General</b>				
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.