

# String Optimizer

# V750 Series -13.5 A Models

Model		V650-13.5	V675-13.5	V700-13.5	V725-13.5	V750-13.5
<b>Electrical</b>						
<b>Input</b>						
Maximum voltage per input <sup>1</sup>	V	750	750	750	750	750
Maximum current per input <sup>2</sup>	A	12.8	12.8	12.8	12.8	12.8
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
<b>Output</b>						
Voltage range	V	0 - 650	0 - 675	0 - 700	0 - 725	0 - 750
Maximum current	A	13.5	13.5	13.5	13.5	13.5
Max continuous power	kWdc	7.4	7.7	8.0	8.3	8.7
Efficiency (Max / CEC / Euro)	%	99.5 / 99.3 / 99.2				
<b>Mechanical</b>						
Input and output connector type	Amphenol H4					
Dimensions	10.71" x 8.66" x 3.94" (272mm x 220mm x 100mm)					
Weight	9.0 lbs. (4.1 kg)					
Ambient temperature operating range	-40 °F to +122 °F (-40 °C to +50 °C)					
Cooling	Convection					
<b>Environmental</b>						
Environmental category	Outdoor					
Pollution degree	2					
Maximum operating altitude <sup>3</sup>	9843 ft (3000 m)					
Overvoltage category	OVII					
Ingress protection	IP 66 / 4X					
<b>General</b>						
Maximum system voltage	750 V					
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 temperature - follow Ampt's design guidelines to determine the number of modules per input and maximum system voltage.

2. Module Imp at standard test condition (STC) - irradiation level of 1000 W/m<sup>2</sup> at 25°C.

3. Optimizer derates above this altitude.

# String Optimizer

# V750 Series -12.8 A Models

Model		V650-12.8	V675-12.8	V700-12.8	V725-12.8	V750-12.8
<b>Electrical</b>						
<b>Input</b>						
Maximum voltage per input <sup>1</sup>	V	750	750	750	750	750
Maximum current per input <sup>2</sup>	A	12.8	12.8	12.8	12.8	12.8
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
<b>Output</b>						
Voltage range	V	0 - 650	0 - 675	0 - 700	0 - 725	0 - 750
Maximum current	A	12.8	12.8	12.8	12.8	12.8
Max continuous power	kWdc	7.0	7.3	7.7	8.0	8.3
Efficiency (Max / CEC / Euro)	%	99.5 / 99.3 / 99.2				
<b>Mechanical</b>						
Input and output connector type	Amphenol H4					
Dimensions	10.71" x 8.66" x 3.94" (272mm x 220mm x 100mm)					
Weight	9.0 lbs. (4.1 kg)					
Ambient temperature operating range	-40 °F to +122 °F (-40 °C to +50 °C)					
Cooling	Convection					
<b>Environmental</b>						
Environmental category	Outdoor					
Pollution degree	2					
Maximum operating altitude <sup>3</sup>	9843 ft (3000 m)					
Overvoltage category	OVII					
Ingress protection	IP 66 / 4X					
<b>General</b>						
Maximum system voltage	750 V					
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 temperature - follow Ampt's design guidelines to determine the number of modules per input and maximum system voltage.

2. Module Imp at standard test condition (STC) - irradiation level of 1000 W/m<sup>2</sup> at 25°C.

3. Optimizer derates above this altitude.

# String Optimizer

# V750 Series -12 A Models

Model		V650-12	V675-12	V700-12	V725-12	V750-12
<b>Electrical</b>						
<b>Input</b>						
Maximum voltage per input <sup>1</sup>	V	750	750	750	750	750
Maximum current per input <sup>2</sup>	A	12.3	12.3	12.3	12.3	12.3
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
<b>Output</b>						
Voltage range	V	0 - 650	0 - 675	0 - 700	0 - 725	0 - 750
Maximum current	A	12	12	12	12	12
Max continuous power	kWdc	6.7	6.9	7.2	7.5	7.8
Efficiency (Max / CEC / Euro)	%	99.5 / 99.3 / 99.2				
<b>Mechanical</b>						
Input and output connector type	Amphenol H4					
Dimensions	10.71" x 8.66" x 3.94" (272mm x 220mm x 100mm)					
Weight	9.0 lbs. (4.1 kg)					
Ambient temperature operating range	-40 °F to +122 °F (-40 °C to +50 °C)					
Cooling	Convection					
<b>Environmental</b>						
Environmental category	Outdoor					
Pollution degree	2					
Maximum operating altitude <sup>3</sup>	9843 ft (3000 m)					
Overvoltage category	OVII					
Ingress protection	IP 66 / 4X					
<b>General</b>						
Maximum system voltage	750 V					
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 temperature - follow Ampt's design guidelines to determine the number of modules per input and maximum system voltage.

2. Module Imp at standard test condition (STC) - irradiation level of 1000 W/m<sup>2</sup> at 25°C.

3. Optimizer derates above this altitude.