

# 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
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	8.3	8.6	8.9	9.2	9.5
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	10.6 lbs. (4.8 kg)					
Ambient temperature operating range	-40 °F to +167 °F (-40 °C to +75 °C)					
Cooling	Convection					
<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					
Ingress protection	IP 66/4X					

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.

# String Optimizer

# V750 Series -13.3 A Models

Model		V650-13.3	V675-13.3	V700-13.3	V725-13.3	V750-13.3
<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
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	13.3	13.3	13.3	13.3	13.3
Max continuous power	kWdc	8.4	8.7	9.0	9.3	9.6
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	10.6 lbs. (4.8 kg)					
Ambient temperature operating range	-40 °F to +167 °F (-40 °C to +75 °C)					
Cooling	Convection					
<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					
Ingress protection	IP 66/4X					

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.

# 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
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	8.0	8.3	8.7	9.0	9.3
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	10.6 lbs. (4.8 kg)					
Ambient temperature operating range	-40 °F to +167 °F (-40 °C to +75 °C)					
Cooling	Convection					
<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					
Ingress protection	IP 66/4X					

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.

# 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
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	7.5	7.8	8.1	8.4	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	10.6 lbs. (4.8 kg)					
Ambient temperature operating range	-40 °F to +167 °F (-40 °C to +75 °C)					
Cooling	Convection					
<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					
Ingress protection	IP 66/4X					

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.