

i32 String Optimizer

750V Systems

maximum
output **32A**

Vxxx-i32-32 models		V625	V650	V675	V700	V725	V750
Electrical							
Input							
Maximum voltage per input	V	750	750	750	750	750	750
Maximum current (Imp) per input	A	24	24	24	24	24	24
Maximum short-circuit current (Isc) per input	A	26	26	26	26	26	26
MPP tracking voltage range	V	300 - 545	300 - 570	300 - 595	300 - 620	300 - 645	300 - 670
Startup voltage per input	V	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2
Output							
Output voltage range	V	0 - 625	0 - 650	0 - 675	0 - 700	0 - 725	0 - 750
Maximum output voltage at full power	V	545	570	595	620	645	670
Output voltage at zero power	V	625	650	675	700	725	750
Maximum output current	A	32	32	32	32	32	32
Maximum continuous output power	kWdc	17.2	18.0	18.8	19.6	20.4	21.2
Efficiency (max / CEC / Euro)	%	99.4 / 99.4 / 99.3					
Mechanical							
Input & output connector	Stäubli MC4-Evo 2						
Dimensions	18.41" x 9.45" x 4.26" (467.6 mm x 240 mm x 108.2 mm)						
Weight	19 lbs. (8.6 kg)						
Ambient temperature operating range	-40 °F – 131 °F (-40 °C – 55 °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.

i32 String Optimizer

750V Systems

maximum
output **30A**

Vxxx-i32-30 models		V625	V650	V675	V700	V725	V750
Electrical							
Input							
Maximum voltage per input	V	750	750	750	750	750	750
Maximum current (Imp) per input	A	24	24	24	24	24	24
Maximum short-circuit current (Isc) per input	A	26	26	26	26	26	26
MPP tracking voltage range	V	300 - 550	300 - 575	300 - 600	300 - 625	300 - 650	300 - 675
Startup voltage per input	V	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2
Output							
Output voltage range	V	0 - 625	0 - 650	0 - 675	0 - 700	0 - 725	0 - 750
Maximum output voltage at full power	V	550	575	600	625	650	675
Output voltage at zero power	V	625	650	675	700	725	750
Maximum output current	A	30	30	30	30	30	30
Maximum continuous output power	kWdc	16.3	17.1	17.8	18.6	19.3	20.1
Efficiency (max / CEC / Euro)	%	99.4 / 99.4 / 99.3					
Mechanical							
Input & output connector	Stäubli MC4-Evo 2						
Dimensions	18.41" x 9.45" x 4.26" (467.6 mm x 240 mm x 108.2 mm)						
Weight	19 lbs. (8.6 kg)						
Ambient temperature operating range	-40 °F – 131 °F (-40 °C – 55 °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.

i32 String Optimizer

750V Systems

maximum
output **28A**

Vxxx-i32-28 models		V625	V650	V675	V700	V725	V750
Electrical							
Input							
Maximum voltage per input	V	750	750	750	750	750	750
Maximum current (Imp) per input	A	22.4	22.4	22.4	22.4	22.4	22.4
Maximum short-circuit current (Isc) per input	A	24.4	24.4	24.4	24.4	24.4	24.4
MPP tracking voltage range	V	300 - 555	300 - 580	300 - 605	300 - 630	300 - 655	300 - 680
Startup voltage per input	V	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2
Output							
Output voltage range	V	0 - 625	0 - 650	0 - 675	0 - 700	0 - 725	0 - 750
Maximum output voltage at full power	V	555	580	605	630	655	680
Output voltage at zero power	V	625	650	675	700	725	750
Maximum output current	A	28	28	28	28	28	28
Maximum continuous output power	kWdc	15.4	16.1	16.8	17.5	18.2	18.9
Efficiency (max / CEC / Euro)	%	99.4 / 99.4 / 99.3					
Mechanical							
Input & output connector	Stäubli MC4-Evo 2						
Dimensions	18.41" x 9.45" x 4.26" (467.6 mm x 240 mm x 108.2 mm)						
Weight	19 lbs. (8.6 kg)						
Ambient temperature operating range	-40 °F – 131 °F (-40 °C – 55 °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.

i32 String Optimizer

750V Systems

maximum
output **25A**

Vxxx-i32-25 models		V625	V650	V675	V700	V725	V750
Electrical							
Input							
Maximum voltage per input	V	750	750	750	750	750	750
Maximum current (Imp) per input	A	20	20	20	20	20	20
Maximum short-circuit current (Isc) per input	A	22	22	22	22	22	22
MPP tracking voltage range	V	300 - 560	300 - 585	300 - 610	300 - 635	300 - 660	300 - 685
Startup voltage per input	V	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2
Output							
Output voltage range	V	0 - 625	0 - 650	0 - 675	0 - 700	0 - 725	0 - 750
Maximum output voltage at full power	V	560	585	610	635	660	685
Output voltage at zero power	V	625	650	675	700	725	750
Maximum output current	A	25	25	25	25	25	25
Maximum continuous output power	kWdc	13.9	14.5	15.2	15.8	16.4	17.0
Efficiency (max / CEC / Euro)	%	99.4 / 99.4 / 99.3					
Mechanical							
Input & output connector	Stäubli MC4-Evo 2						
Dimensions	18.41" x 9.45" x 4.26" (467.6 mm x 240 mm x 108.2 mm)						
Weight	19 lbs. (8.6 kg)						
Ambient temperature operating range	-40 °F – 131 °F (-40 °C – 55 °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.

i32 String Optimizer

750V Systems

maximum
output **24A**

Vxxx-i32-24 models		V625	V650	V675	V700	V725	V750
Electrical							
Input							
Maximum voltage per input	V	750	750	750	750	750	750
Maximum current (Imp) per input	A	19.2	19.2	19.2	19.2	19.2	19.2
Maximum short-circuit current (Isc) per input	A	21.2	21.2	21.2	21.2	21.2	21.2
MPP tracking voltage range	V	300 - 565	300 - 590	300 - 615	300 - 640	300 - 665	300 - 690
Startup voltage per input	V	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2
Output							
Output voltage range	V	0 - 625	0 - 650	0 - 675	0 - 700	0 - 725	0 - 750
Maximum output voltage at full power	V	565	590	615	640	665	690
Output voltage at zero power	V	625	650	675	700	725	750
Maximum output current	A	24	24	24	24	24	24
Maximum continuous output power	kWdc	13.4	14.0	14.6	15.2	15.8	16.4
Efficiency (max / CEC / Euro)	%	99.4 / 99.4 / 99.3					
Mechanical							
Input & output connector	Stäubli MC4-Evo 2						
Dimensions	18.41" x 9.45" x 4.26" (467.6 mm x 240 mm x 108.2 mm)						
Weight	19 lbs. (8.6 kg)						
Ambient temperature operating range	-40 °F – 131 °F (-40 °C – 55 °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.