

i32 String Optimizer

1000V Systems

maximum output **32A**

Vxxx-i32-32 models		V800	V825	V850	V875	V900	V925	V950	V975	V1000
Electrical										
Input										
Maximum voltage per input	V	1000	1000	1000	1000	1000	1000	1000	1000	1000
Maximum current (Imp) per input	A	24	24	24	24	24	24	24	24	24
Maximum short-circuit current (Isc) per input	A	26	26	26	26	26	26	26	26	26
MPP tracking voltage range	V	300 - 720	300 - 745	300 - 770	300 - 795	300 - 820	300 - 845	300 - 870	300 - 895	300 - 920
Startup voltage per input	V	390	390	390	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2	2	2	2
Output										
Output voltage range	V	0 - 800	0 - 825	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Maximum output voltage at full power	V	720	745	770	795	820	845	870	895	920
Output voltage at zero power	V	800	825	850	875	900	925	950	975	1000
Maximum output current	A	32	32	32	32	32	32	32	32	32
Maximum continuous output power	kWdc	22.8	23.6	24.4	25.2	26.0	26.8	27.6	28.4	29.2
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.

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1000V Systems

maximum output **30A**

Vxxx-i32-30 models		V800	V825	V850	V875	V900	V925	V950	V975	V1000
Electrical										
Input										
Maximum voltage per input	V	1000	1000	1000	1000	1000	1000	1000	1000	1000
Maximum current (Imp) per input	A	24	24	24	24	24	24	24	24	24
Maximum short-circuit current (Isc) per input	A	26	26	26	26	26	26	26	26	26
MPP tracking voltage range	V	300 - 725	300 - 750	300 - 775	300 - 800	300 - 825	300 - 850	300 - 875	300 - 900	300 - 925
Startup voltage per input	V	390	390	390	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2	2	2	2
Output										
Output voltage range	V	0 - 800	0 - 825	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Maximum output voltage at full power	V	725	750	775	800	825	850	875	900	925
Output voltage at zero power	V	800	825	850	875	900	925	950	975	1000
Maximum output current	A	30	30	30	30	30	30	30	30	30
Maximum continuous output power	kWdc	21.6	22.3	23.1	23.8	24.6	25.3	26.1	26.8	27.6
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									

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1000V Systems

maximum output **28A**

Vxxx-i32-28 models		V800	V825	V850	V875	V900	V925	V950	V975	V1000
Electrical										
Input										
Maximum voltage per input	V	1000	1000	1000	1000	1000	1000	1000	1000	1000
Maximum current (Imp) per input	A	22.4	22.4	22.4	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	24.4	24.4	24.4
MPP tracking voltage range	V	300 - 730	300 - 755	300 - 780	300 - 805	300 - 830	300 - 855	300 - 880	300 - 905	300 - 930
Startup voltage per input	V	390	390	390	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2	2	2	2
Output										
Output voltage range	V	0 - 800	0 - 825	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Maximum output voltage at full power	V	730	755	780	805	830	855	880	905	930
Output voltage at zero power	V	800	825	850	875	900	925	950	975	1000
Maximum output current	A	28	28	28	28	28	28	28	28	28
Maximum continuous output power	kWdc	20.3	21.0	21.7	22.4	23.1	23.8	24.5	25.2	25.9
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									

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1000V Systems

maximum output **25A**

Vxxx-i32-25 models		V800	V825	V850	V875	V900	V925	V950	V975	V1000
Electrical										
Input										
Maximum voltage per input	V	1000	1000	1000	1000	1000	1000	1000	1000	1000
Maximum current (Imp) per input	A	20	20	20	20	20	20	20	20	20
Maximum short-circuit current (Isc) per input	A	22	22	22	22	22	22	22	22	22
MPP tracking voltage range	V	300 - 735	300 - 760	300 - 785	300 - 810	300 - 835	300 - 860	300 - 885	300 - 910	300 - 935
Startup voltage per input	V	390	390	390	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2	2	2	2
Output										
Output voltage range	V	0 - 800	0 - 825	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Maximum output voltage at full power	V	735	760	785	810	835	860	885	910	935
Output voltage at zero power	V	800	825	850	875	900	925	950	975	1000
Maximum output current	A	25	25	25	25	25	25	25	25	25
Maximum continuous output power	kWdc	18.3	18.9	19.5	20.2	20.8	21.4	22.0	22.7	23.3
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									

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1000V Systems

maximum output **24A**

Vxxx-i32-24 models		V800	V825	V850	V875	V900	V925	V950	V975	V1000
Electrical										
Input										
Maximum voltage per input	V	1000	1000	1000	1000	1000	1000	1000	1000	1000
Maximum current (Imp) per input	A	19.2	19.2	19.2	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	21.2	21.2	21.2
MPP tracking voltage range	V	300 - 740	300 - 765	300 - 790	300 - 815	300 - 840	300 - 865	300 - 890	300 - 915	300 - 940
Startup voltage per input	V	390	390	390	390	390	390	390	390	390
Number of inputs		2	2	2	2	2	2	2	2	2
Output										
Output voltage range	V	0 - 800	0 - 825	0 - 850	0 - 875	0 - 900	0 - 925	0 - 950	0 - 975	0 - 1000
Maximum output voltage at full power	V	740	765	790	815	840	865	890	915	940
Output voltage at zero power	V	800	825	850	875	900	925	950	975	1000
Maximum output current	A	24	24	24	24	24	24	24	24	24
Maximum continuous output power	kWdc	17.6	18.2	18.8	19.4	20.0	20.6	21.2	21.8	22.4
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									

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