i36 String Optimizer

1000V Systems (-0.914 A/V slope)

maximum output **36A**

Vxxxx-i36-36 (-0.914 A/V) 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	36	36	36	36	36	36	36	36	36
Maximum short-circuit current (Isc) per input	A	39	39	39	39	39	39	39	39	39
MPP tracking voltage range	V	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000
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	765	790	815	840	865	890	915	940	965
Output voltage at zero power	V	800	825	850	875	900	925	950	975	1000
Maximum output current	A	36	36	36	36	36	36	36	36	36
Maximum continuous output power	kWdc	27.3	28.2	29.1	30.0	30.9	31.8	32.7	33.6	34.5
Efficiency (max / CEC / Euro)	%	99.2 / 99 / 98.8								
Mechanical										
Input & output connector		Stäubli MC4-Evo 2								
Dimensions		20.18" x 9.45" x 4.26" (513 mm x 240 mm x 108 mm)								
Weight		22.6 lbs. (10.25 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		IP67 / NEMA 6								
General										
Compliance (pending)		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 (-0.914 A/V slope)

maximum output 32A

Vxxxx-i36-32 (-0.914 A/V) 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	32	32	32	32	32	32	32	32	32
Maximum short-circuit current (Isc) per input	A	35	35	35	35	35	35	35	35	35
MPP tracking voltage range	V	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000
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	765	790	815	840	865	890	915	940	965
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	24.4	25.2	26.0	26.8	27.6	28.4	29.2	30.0	30.8
Efficiency (max / CEC / Euro)	%	99.2 / 99 / 98.7								
Mechanical										
Input & output connector		Stäubli MC4-Evo 2								
Dimensions		20.18" x 9.45" x 4.26" (513 mm x 240 mm x 108 mm)								
Weight		22.6 lbs. (10.25 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		IP67 / NEMA 6								
General										
Compliance (pending)		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 (-0.914 A/V slope)

maximum output **30A**

Vxxxx-i36-30 (-0.914 A/V) 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	30	30	30	30	30	30	30	30	30
Maximum short-circuit current (Isc) per input	A	33	33	33	33	33	33	33	33	33
MPP tracking voltage range	V	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000
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	770	795	820	845	870	895	920	945	970
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	23.0	23.7	24.5	25.2	26.0	26.7	27.5	28.2	29.0
Efficiency (max / CEC / Euro)	%	99.2 / 98.9 / 98.7								
Mechanical										
Input & output connector		Stäubli MC4-Evo 2								
Dimensions		20.18" x 9.45" x 4.26" (513 mm x 240 mm x 108 mm)								
Weight		22.6 lbs. (10.25 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		IP67 / NEMA 6								
General										
Compliance (pending)		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 (-0.914 A/V slope)

maximum output **28A**

Vxxxx-i36-28 (-0.914 A/V) 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	28	28	28	28	28	28	28	28	28
Maximum short-circuit current (Isc) per input	A	31	31	31	31	31	31	31	31	31
MPP tracking voltage range	V	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000
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	770	795	820	845	870	895	920	945	970
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	21.5	22.2	22.9	23.6	24.3	25.0	25.7	26.4	27.1
Efficiency (max / CEC / Euro)	%	99.2 / 98.9 / 98.6								
Mechanical										
Input & output connector		Stäubli MC4-Evo 2								
Dimensions		20.18" x 9.45" x 4.26" (513 mm x 240 mm x 108 mm)								
Weight		22.6 lbs. (10.25 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		IP67 / NEMA 6								
General										
Compliance (pending)		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 (-0.914 A/V slope)

maximum output 25A

Vxxxx-i36-25 (-0.914 A/V) 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	25	25	25	25	25	25	25	25	25
Maximum short-circuit current (Isc) per input	A	27	27	27	27	27	27	27	27	27
MPP tracking voltage range	V	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000
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	775	800	825	850	875	900	925	950	975
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	19.3	19.9	20.5	21.1	21.8	22.4	23.0	23.6	24.3
Efficiency (max / CEC / Euro)	%	99.2 / 98.8 / 98.5								
Mechanical										
Input & output connector		Stäubli MC4-Evo 2								
Dimensions		20.18" x 9.45" x 4.26" (513 mm x 240 mm x 108 mm)								
Weight		22.6 lbs. (10.25 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		IP67 / NEMA 6								
General										
Compliance (pending)		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 (-0.914 A/V slope)

maximum output **24A**

Vxxxx-i36-24 (-0.914 A/V) 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 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000
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	775	800	825	850	875	900	925	950	975
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	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3
Efficiency (max / CEC / Euro)	%	99.2 / 98.8 / 98.5								
Mechanical										
Input & output connector		Stäubli MC4-Evo 2								
Dimensions		20.18" x 9.45" x 4.26" (513 mm x 240 mm x 108 mm)								
Weight		22.6 lbs. (10.25 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		IP67 / NEMA 6								
General										
Compliance (pending)		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 (-0.914 A/V slope)

maximum output **20A**

Vxxxx-i36-20 (-0.914 A/V) 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 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000	300 - 1000
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	780	805	830	855	880	905	930	955	980
Output voltage at zero power	V	800	825	850	875	900	925	950	975	1000
Maximum output current	A	20	20	20	20	20	20	20	20	20
Maximum continuous output power	kWdc	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5
Efficiency (max / CEC / Euro)	%	99.1 / 98.7 / 98.3								
Mechanical										
Input & output connector		Stäubli MC4-Evo 2								
Dimensions		20.18" x 9.45" x 4.26" (513 mm x 240 mm x 108 mm)								
Weight		22.6 lbs. (10.25 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		IP67 / NEMA 6								
General										
Compliance (pending)		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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