# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **36A**

| Vxxxx-i36-36 (-0.914 A/V) models | | V1300 | V1325 | V1350 | V1375 | V1400 | V1425 | V1450 | V1475 | V1500 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1300 | 0 - 1325 | 0 - 1350 | 0 - 1375 | 0 - 1400 | 0 - 1425 | 0 - 1450 | 0 - 1475 | 0 - 1500 |
| Maximum output voltage at full power | V | 1265 | 1290 | 1315 | 1340 | 1365 | 1390 | 1415 | 1440 | 1465 |
| Output voltage at zero power | V | 1300 | 1325 | 1350 | 1375 | 1400 | 1425 | 1450 | 1475 | 1500 |
| Maximum output current | A | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Maximum continuous output power | kWdc | 45.3 | 46.2 | 47.1 | 48.0 | 48.9 | 49.8 | 50.7 | 51.6 | 52.5 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.3 / 99.1 | | | | | | | | |
| **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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **36A**

| Vxxxx-i36-36 (-0.914 A/V) models | | V1075 | V1100 | V1125 | V1150 | V1175 | V1200 | V1225 | V1250 | V1275 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1075 | 0 - 1100 | 0 - 1125 | 0 - 1150 | 0 - 1175 | 0 - 1200 | 0 - 1225 | 0 - 1250 | 0 - 1275 |
| Maximum output voltage at full power | V | 1040 | 1065 | 1090 | 1115 | 1140 | 1165 | 1190 | 1215 | 1240 |
| Output voltage at zero power | V | 1075 | 1100 | 1125 | 1150 | 1175 | 1200 | 1225 | 1250 | 1275 |
| Maximum output current | A | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Maximum continuous output power | kWdc | 37.2 | 38.1 | 39.0 | 39.9 | 40.8 | 41.7 | 42.6 | 43.5 | 44.4 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.3 / 99.1 | | | | | | | | |
| **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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **32A**

| Vxxxx-i36-32 (-0.914 A/V) models | | V1300 | V1325 | V1350 | V1375 | V1400 | V1425 | V1450 | V1475 | V1500 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1300 | 0 - 1325 | 0 - 1350 | 0 - 1375 | 0 - 1400 | 0 - 1425 | 0 - 1450 | 0 - 1475 | 0 - 1500 |
| Maximum output voltage at full power | V | 1265 | 1290 | 1315 | 1340 | 1365 | 1390 | 1415 | 1440 | 1465 |
| Output voltage at zero power | V | 1300 | 1325 | 1350 | 1375 | 1400 | 1425 | 1450 | 1475 | 1500 |
| Maximum output current | A | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| Maximum continuous output power | kWdc | 40.4 | 41.2 | 42.0 | 42.8 | 43.6 | 44.4 | 45.2 | 46.0 | 46.8 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.3 / 99.0 | | | | | | | | |
| **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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **32A**

| Vxxxx-i36-32 (-0.914 A/V) models | | V1075 | V1100 | V1125 | V1150 | V1175 | V1200 | V1225 | V1250 | V1275 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1075 | 0 - 1100 | 0 - 1125 | 0 - 1150 | 0 - 1175 | 0 - 1200 | 0 - 1225 | 0 - 1250 | 0 - 1275 |
| Maximum output voltage at full power | V | 1040 | 1065 | 1090 | 1115 | 1140 | 1165 | 1190 | 1215 | 1240 |
| Output voltage at zero power | V | 1075 | 1100 | 1125 | 1150 | 1175 | 1200 | 1225 | 1250 | 1275 |
| Maximum output current | A | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| Maximum continuous output power | kWdc | 33.2 | 34.0 | 34.8 | 35.6 | 36.4 | 37.2 | 38.0 | 38.8 | 39.6 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.3 / 99.0 | | | | | | | | |
| **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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **30A**

| Vxxxx-i36-30 (-0.914 A/V) models | | V1300 | V1325 | V1350 | V1375 | V1400 | V1425 | V1450 | V1475 | V1500 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1300 | 0 - 1325 | 0 - 1350 | 0 - 1375 | 0 - 1400 | 0 - 1425 | 0 - 1450 | 0 - 1475 | 0 - 1500 |
| Maximum output voltage at full power | V | 1270 | 1295 | 1320 | 1345 | 1370 | 1395 | 1420 | 1445 | 1470 |
| Output voltage at zero power | V | 1300 | 1325 | 1350 | 1375 | 1400 | 1425 | 1450 | 1475 | 1500 |
| Maximum output current | A | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Maximum continuous output power | kWdc | 38.0 | 38.7 | 39.5 | 40.2 | 41.0 | 41.7 | 42.5 | 43.2 | 44.0 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.2 / 99.0 | | | | | | | | |
| **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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **30A**

| Vxxxx-i36-30 (-0.914 A/V) models | | V1075 | V1100 | V1125 | V1150 | V1175 | V1200 | V1225 | V1250 | V1275 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1075 | 0 - 1100 | 0 - 1125 | 0 - 1150 | 0 - 1175 | 0 - 1200 | 0 - 1225 | 0 - 1250 | 0 - 1275 |
| Maximum output voltage at full power | V | 1045 | 1070 | 1095 | 1120 | 1145 | 1170 | 1195 | 1220 | 1245 |
| Output voltage at zero power | V | 1075 | 1100 | 1125 | 1150 | 1175 | 1200 | 1225 | 1250 | 1275 |
| Maximum output current | A | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Maximum continuous output power | kWdc | 31.2 | 32.0 | 32.7 | 33.5 | 34.2 | 35.0 | 35.7 | 36.5 | 37.2 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.2 / 99.0 | | | | | | | | |
| **Mechanical** | | | | | | | | | | |
| Input & output connector | | Stäubli MC4-Evo 2 | | | | | | | | |
| Dimensions | | 20.18" x 9.45" x 4.26"<br>(513 mm x 240 mm x 108 mm) | | | | | | | | |
| Weight | | 22.6 lbs. (10.25 kg) | | | | | | | | |
| Ambient temperature operating range | | -40 °F – 131 °F<br>(-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;<br>IEC 61000-6-1, 61000-6-3, 62109; CE;<br>Giteki 2-1-19; FCC Part 15, class A | | | | | | | | |

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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **28A**

| Vxxxx-i36-28 (-0.914 A/V) models | | V1300 | V1325 | V1350 | V1375 | V1400 | V1425 | V1450 | V1475 | V1500 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1300 | 0 - 1325 | 0 - 1350 | 0 - 1375 | 0 - 1400 | 0 - 1425 | 0 - 1450 | 0 - 1475 | 0 - 1500 |
| Maximum output voltage at full power | V | 1270 | 1295 | 1320 | 1345 | 1370 | 1395 | 1420 | 1445 | 1470 |
| Output voltage at zero power | V | 1300 | 1325 | 1350 | 1375 | 1400 | 1425 | 1450 | 1475 | 1500 |
| Maximum output current | A | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Maximum continuous output power | kWdc | 35.5 | 36.2 | 36.9 | 37.6 | 38.3 | 39.0 | 39.7 | 40.4 | 41.1 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.2 / 98.9 | | | | | | | | |
| **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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **28A**

| Vxxxx-i36-28 (-0.914 A/V) models | | V1075 | V1100 | V1125 | V1150 | V1175 | V1200 | V1225 | V1250 | V1275 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1075 | 0 - 1100 | 0 - 1125 | 0 - 1150 | 0 - 1175 | 0 - 1200 | 0 - 1225 | 0 - 1250 | 0 - 1275 |
| Maximum output voltage at full power | V | 1045 | 1070 | 1095 | 1120 | 1145 | 1170 | 1195 | 1220 | 1245 |
| Output voltage at zero power | V | 1075 | 1100 | 1125 | 1150 | 1175 | 1200 | 1225 | 1250 | 1275 |
| Maximum output current | A | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Maximum continuous output power | kWdc | 29.2 | 29.9 | 30.6 | 31.3 | 32.0 | 32.7 | 33.4 | 34.1 | 34.8 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.2 / 98.9 | | | | | | | | |
| **Mechanical** | | | | | | | | | | |
| Input & output connector | | Stäubli MC4-Evo 2 | | | | | | | | |
| Dimensions | | 20.18" x 9.45" x 4.26"<br>(513 mm x 240 mm x 108 mm) | | | | | | | | |
| Weight | | 22.6 lbs. (10.25 kg) | | | | | | | | |
| Ambient temperature operating range | | -40 °F – 131 °F<br>(-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;<br>IEC 61000-6-1, 61000-6-3, 62109; CE;<br>Giteki 2-1-19; FCC Part 15, class A | | | | | | | | |

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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **25A**

| Vxxxx-i36-25 (-0.914 A/V) models | | V1300 | V1325 | V1350 | V1375 | V1400 | V1425 | V1450 | V1475 | V1500 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1300 | 0 - 1325 | 0 - 1350 | 0 - 1375 | 0 - 1400 | 0 - 1425 | 0 - 1450 | 0 - 1475 | 0 - 1500 |
| Maximum output voltage at full power | V | 1275 | 1300 | 1325 | 1350 | 1375 | 1400 | 1425 | 1450 | 1475 |
| Output voltage at zero power | V | 1300 | 1325 | 1350 | 1375 | 1400 | 1425 | 1450 | 1475 | 1500 |
| Maximum output current | A | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Maximum continuous output power | kWdc | 31.8 | 32.4 | 33.0 | 33.6 | 34.3 | 34.9 | 35.5 | 36.1 | 36.8 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.1 / 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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **25A**

| Vxxxx-i36-25 (-0.914 A/V) models | | V1075 | V1100 | V1125 | V1150 | V1175 | V1200 | V1225 | V1250 | V1275 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1075 | 0 - 1100 | 0 - 1125 | 0 - 1150 | 0 - 1175 | 0 - 1200 | 0 - 1225 | 0 - 1250 | 0 - 1275 |
| Maximum output voltage at full power | V | 1050 | 1075 | 1100 | 1125 | 1150 | 1175 | 1200 | 1225 | 1250 |
| Output voltage at zero power | V | 1075 | 1100 | 1125 | 1150 | 1175 | 1200 | 1225 | 1250 | 1275 |
| Maximum output current | A | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Maximum continuous output power | kWdc | 26.1 | 26.8 | 27.4 | 28.0 | 28.6 | 29.3 | 29.9 | 30.5 | 31.1 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.1 / 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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **24A**

| Vxxxx-i36-24 (-0.914 A/V) models | | V1300 | V1325 | V1350 | V1375 | V1400 | V1425 | V1450 | V1475 | V1500 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1300 | 0 - 1325 | 0 - 1350 | 0 - 1375 | 0 - 1400 | 0 - 1425 | 0 - 1450 | 0 - 1475 | 0 - 1500 |
| Maximum output voltage at full power | V | 1275 | 1300 | 1325 | 1350 | 1375 | 1400 | 1425 | 1450 | 1475 |
| Output voltage at zero power | V | 1300 | 1325 | 1350 | 1375 | 1400 | 1425 | 1450 | 1475 | 1500 |
| Maximum output current | A | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Maximum continuous output power | kWdc | 30.5 | 31.1 | 31.7 | 32.3 | 32.9 | 33.5 | 34.1 | 34.7 | 35.3 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.1 / 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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **24A**

| Vxxxx-i36-24 (-0.914 A/V) models | | V1075 | V1100 | V1125 | V1150 | V1175 | V1200 | V1225 | V1250 | V1275 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1075 | 0 - 1100 | 0 - 1125 | 0 - 1150 | 0 - 1175 | 0 - 1200 | 0 - 1225 | 0 - 1250 | 0 - 1275 |
| Maximum output voltage at full power | V | 1050 | 1075 | 1100 | 1125 | 1150 | 1175 | 1200 | 1225 | 1250 |
| Output voltage at zero power | V | 1075 | 1100 | 1125 | 1150 | 1175 | 1200 | 1225 | 1250 | 1275 |
| Maximum output current | A | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Maximum continuous output power | kWdc | 25.1 | 25.7 | 26.3 | 26.9 | 27.5 | 28.1 | 28.7 | 29.3 | 29.9 |
| Efficiency (max / CEC / Euro) | % | 99.4 / 99.1 / 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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **20A**

| Vxxxx-i36-20 (-0.914 A/V) models | | V1300 | V1325 | V1350 | V1375 | V1400 | V1425 | V1450 | V1475 | V1500 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1300 | 0 - 1325 | 0 - 1350 | 0 - 1375 | 0 - 1400 | 0 - 1425 | 0 - 1450 | 0 - 1475 | 0 - 1500 |
| Maximum output voltage at full power | V | 1280 | 1305 | 1330 | 1355 | 1380 | 1405 | 1430 | 1455 | 1480 |
| Output voltage at zero power | V | 1300 | 1325 | 1350 | 1375 | 1400 | 1425 | 1450 | 1475 | 1500 |
| Maximum output current | A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Maximum continuous output power | kWdc | 25.5 | 26.0 | 26.5 | 27.0 | 27.5 | 28.0 | 28.5 | 29.0 | 29.5 |
| Efficiency (max / CEC / Euro) | % | 99.3 / 99.0 / 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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# i36 String Optimizer

## 1500V Systems (-0.914 A/V slope)

maximum output **20A**

| Vxxxx-i36-20 (-0.914 A/V) models | | V1075 | V1100 | V1125 | V1150 | V1175 | V1200 | V1225 | V1250 | V1275 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Electrical** | | | | | | | | | | |
| **Input** | | | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 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 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 | 300 - 1500 |
| 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 - 1075 | 0 - 1100 | 0 - 1125 | 0 - 1150 | 0 - 1175 | 0 - 1200 | 0 - 1225 | 0 - 1250 | 0 - 1275 |
| Maximum output voltage at full power | V | 1055 | 1080 | 1105 | 1130 | 1155 | 1180 | 1205 | 1230 | 1255 |
| Output voltage at zero power | V | 1075 | 1100 | 1125 | 1150 | 1175 | 1200 | 1225 | 1250 | 1275 |
| Maximum output current | A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Maximum continuous output power | kWdc | 21.0 | 21.5 | 22.0 | 22.5 | 23.0 | 23.5 | 24.0 | 24.5 | 25.0 |
| Efficiency (max / CEC / Euro) | % | 99.3 / 99.0 / 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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