

String Optimizer

V1300 Series -12.8 A Models

| Model | | V1100-12.8 | V1150-12.8 | V1200-12.8 | V1250-12.8 | V1300-12.8 |
|--|--|--------------------|------------|------------|------------|------------|
| Electrical | | | | | | |
| Input | | | | | | |
| Maximum voltage per input ¹ | V | 1300 | 1300 | 1300 | 1300 | 1300 |
| Maximum current per input ² | A | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| MPP tracking voltage range | V | 190 - 1100 | 190 - 1100 | 190 - 1100 | 190 - 1100 | 190 - 1100 |
| Number of inputs | | 2 | 2 | 2 | 2 | 2 |
| Output | | | | | | |
| Voltage range | V | 0 - 1100 | 0 - 1150 | 0 - 1200 | 0 - 1250 | 0 - 1300 |
| Maximum current | A | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| Max continuous power | kWdc | 13.6 | 14.2 | 14.8 | 15.4 | 16 |
| Efficiency (Max / CEC / Euro) | % | 99.5 / 99.3 / 99.2 | | | | |
| Mechanical | | | | | | |
| 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 | | | | | |
| General | | | | | | |
| Maximum system voltage | 1500 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/m² at 25°C.

String Optimizer

V1300 Series -12 A Models

| Model | | V1100-12 | V1150-12 | V1200-12 | V1250-12 | V1300-12 |
|--|--|--------------------|------------|------------|------------|------------|
| Electrical | | | | | | |
| Input | | | | | | |
| Maximum voltage per input ¹ | V | 1300 | 1300 | 1300 | 1300 | 1300 |
| Maximum current per input ² | A | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| MPP tracking voltage range | V | 190 - 1100 | 190 - 1100 | 190 - 1100 | 190 - 1100 | 190 - 1100 |
| Number of inputs | | 2 | 2 | 2 | 2 | 2 |
| Output | | | | | | |
| Voltage range | V | 0 - 1100 | 0 - 1150 | 0 - 1200 | 0 - 1250 | 0 - 1300 |
| Maximum current | A | 12 | 12 | 12 | 12 | 12 |
| Max continuous power | kWdc | 12.7 | 13.3 | 13.9 | 14.5 | 15 |
| Efficiency (Max / CEC / Euro) | % | 99.5 / 99.3 / 99.2 | | | | |
| Mechanical | | | | | | |
| 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 | | | | | |
| General | | | | | | |
| Maximum system voltage | 1500 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/m² at 25°C.