

String Optimizer

V1500-32-32 Series

| Vxxxx-32-32 Models | | V1200 | V1225 | V1250 | V1275 | V1300 | V1325 | V1350 |
|---|--|--------------------|------------|------------|------------|------------|------------|------------|
| Electrical | | | | | | | | |
| Input | | | | | | | | |
| Maximum voltage per input | V | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Maximum current (Imp) per input | A | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Maximum short-circuit current (Isc) per input | A | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| MPP tracking voltage range | V | 300 - 1120 | 300 - 1145 | 300 - 1170 | 300 - 1195 | 300 - 1220 | 300 - 1245 | 300 - 1270 |
| Startup voltage per input | V | 390 | 390 | 390 | 390 | 390 | 390 | 390 |
| Number of inputs | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Output | | | | | | | | |
| Output voltage range | V | 0 - 1200 | 0 - 1225 | 0 - 1250 | 0 - 1275 | 0 - 1300 | 0 - 1325 | 0 - 1350 |
| Output voltage at full power | V | 1120 | 1145 | 1170 | 1195 | 1220 | 1245 | 1270 |
| Output voltage at zero power | V | 1200 | 1225 | 1250 | 1275 | 1300 | 1325 | 1350 |
| Maximum output current | A | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| Maximum continuous output power | kWdc | 35.8 | 36.6 | 37.4 | 38.2 | 39.0 | 39.8 | 40.6 |
| Efficiency (max / CEC / Euro) | % | 99.5 / 99.4 / 99.3 | | | | | | |
| Mechanical | | | | | | | | |
| Input & output connector | MC4-Evo 2 | | | | | | | |
| Dimensions | 18.35" x 8.66" x 3.94" (466.1 mm x 220 mm x 100 mm) | | | | | | | |
| Weight | 17.8 lbs. (8.1 kg) | | | | | | | |
| Ambient temperature operating range | -40 °F to +122 °F (-40 °C to +50 °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 | | | | | | | | |
| 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 | | | | | | | |

Follow Ampt design guidelines to identify possible derating at high ambient temperatures or altitudes.