

| Model | AP-20 | AP-30 | AP-40 | AP-50 | AP-60 | AP-80 | AP-100 | AP-120 |
|-------------------------------------|--|-------|-------|-------|--|-------|--------|--------|
| Rated current | 20A | 30A | 40A | 50A | 60A | 80A | 100A | 120A |
| Current-limiting protection | 22A | 32A | 42A | 52A | 62A | 82A | 102A | 122A |
| DC voltage | 12/24/36/48VDC | | | | 12/24/36/48/96VDC | | | |
| Mppt Range Operating Voltage | | | | | | | | |
| 12VDC | 18VDC~80VDC | | | | | | | |
| 24VDC | 30VDC~100VDC | | | | | | | |
| 36VDC | 40VDC~100VDC | | | | | | | |
| 48VDC | 60VDC~150VDC | | | | | | | |
| 96VDC | Not Available | | | | 120VDC~200VDC | | | |
| Maximum PV Array Power | | | | | | | | |
| 12VDC | 280W | 420W | 570W | 700W | 900W | 1140W | 1400W | 1800W |
| 24VDC | 550W | 840W | 1130W | 1400W | 1700W | 2260W | 2800W | 3400W |
| 36VDC | 840W | 1260W | 1710W | 2100W | 2700W | 3420W | 4200W | 5400W |
| 48VDC | 1100W | 1650W | 2270W | 2800W | 3400W | 4540W | 5600W | 6800W |
| 96VDC | Not Available | | | | 7200W | 9120W | 11200W | 14400W |
| Protections | | | | | | | | |
| Auto temperature compensation | 14.2V - (Max. Temperature - 25°C) * 0.3 | | | | | | | |
| Output voltage stability accuracy | ≤±1.5% | | | | | | | |
| Low voltage input protection | ≤16VDC (12V) / ≤30VDC (24V) / ≤45VDC (36V) / ≤60VDC (48V) | | | | ≤16VDC (12V) / ≤30VDC (24V) / ≤45VDC (36V) / ≤60VDC (48V) ≤128VDC (96V) | | | |
| Low voltage input resumption | ≥18VDC (12V) / ≥34VDC (24V) / ≥49VDC (36V) / ≥65VDC (48V) | | | | ≥18VDC (12V) / ≥34VDC (24V) / ≥49VDC (36V) / ≥65VDC (48V) ≥ 144VDC (96V) | | | |
| High voltage input protection | ≥160VDC (12V / 24V / 36V/ 48V) | | | | ≥160VDC (12V / 24V / 36V/ 48V) , ≥210VDC(96V) | | | |
| High voltage input resumption | ≤145VDC (12V / 24V / 36V/ 48V) | | | | ≤145VDC (12V / 24V / 36V/ 48V) , ≤195VDC(96V) | | | |
| Maximum input voltage | 150VDC (12V / 24V / 36V/ 48V) | | | | 150VDC (12V / 24V / 36V/ 48V) , 200VDC (96VDC) | | | |
| High temperature | -20~+75°C | | | | | | | |
| Short circuit protection | Available for long time, self-recovery after removing the short-circuit fault | | | | | | | |
| other protection | over charge, over discharge, over load, reverse connect | | | | | | | |
| Charging | | | | | | | | |
| Charging mode | MPPT automatic maximum power point tracking | | | | | | | |
| Charging method | Three stages: Constant current charging(MPPT), Equalizing charging, float charging | | | | | | | |

| | | | |
|--|--|---|-------------|
| System Type | DC 12V/24V/48V automatic recognition,36vdc manual setting,96vdc customize | | |
| Voltage recognition range | 9-15VDC (12V) / 18-30VDC (24V) / 27-45VDC (36V) / 36-60VDC (48V) | 9-15VDC (12V) / 18-30VDC (24V) / 27-45VDC (36V) / 36-60VDC (48V)/ 72-120VDC (96V) | |
| Static power consumption | ≤2W | | |
| Overall transfer efficiency | ≥96.5%, ≤99% | | |
| PV module utilization | ≤99.76% | | |
| Others | | | |
| Display | LCD intelligent display with function buttons | | |
| Optional battery type | Maintenance-free lead acid battery(default), colloidal battery, liquid battery, lithium battery, others are available by customizing | | |
| Cooling system | Intelligent fan by forced air cooling, fan speed is adjusted by real temperature | | |
| Communication | RS-485, support wifi box for remote control and monitoring. | | |
| Environment | | | |
| Working temperature | -40~+70°C | | |
| Humidity | < 90%RH (No condensation) | | |
| Atmospheric pressure | 70~106kPa | | |
| Mesurement | | | |
| Packing size (mm) | 315*235*150 | 360*260*190 | 570*360*200 |
| Gross Weight (kg) | 3.5KGS | 4.5KGS | 13KGS |
| *Product specifications are subject to change without further notice | | | |