

# On Line Uninterruptible Power Supply

## Powersolid Series 10 kVA



### Specifications

- True double conversion wide input voltage (110 - 300V)
- Smart fan-speed control design
- Eco mode energy saving
- Optional powerful charger for battery backup extension
- Adjustable battery number
- Common battery for parallel operation

General Application Areas:



Finance



Medical



Industry



Datacenter

# Powersolid Series 10 kVA Technical Specifications

| MODEL                                |                      | Powersolid 10 kVA  |
|--------------------------------------|----------------------|--|
| Capacity (VA/Watt)*                  |                      | 10000 VA / 8000 W  |
| Input                                |                      |  |
| Voltage Range                        | Low Line Loss        | 110 VAC $\pm$ 3 % at 50% Load ; 176 VAC $\pm$ 3 % at 100% Load   |
|                                      | Low Line Comeback    | Low Line Loss Voltage + 10V  |
|                                      | High Line Loss       | 300 VAC $\pm$ 3 %  |
|                                      | High Line Comeback   | High Line Loss Voltage - 10V   |
| Frequency Range                      |                      | 46Hz ~ 54 Hz @ 50Hz system / 56Hz ~ 64 Hz @ 60 Hz system   |
| Phase                                |                      | Single phase neutral and ground  |
| Power Factor                         |                      | $\geq$ 0.99 at 100% load   |
| Output                               |                      |  |
| Output Voltage                       |                      | 208 / 220 / 230 / 240 VAC (Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC) |
| AC Voltage Regulation                |                      | $\pm$ 1%   |
| Frequency Range (Synchronized Range) |                      | 46 Hz ~ 54 Hz @ 50Hz system / 56Hz ~ 64Hz @ 60Hz system  |
| Frequency Range (Batt. Mode)         |                      | 50 Hz $\pm$ 0.1 Hz or 60Hz $\pm$ 0.1 Hz  |
| Overload                             | AC mode              | 100% ~ 110% : 30min ; 110% ~ 130% : 5min ; > 130% : 10sec  |
|                                      | Battery mode         | 100% ~ 110% : 3min ; 110% ~ 130% : 30sec ; > 130% : 10sec  |
| Current Crest Ratio                  |                      | 3:1 Max.   |
| Harmonic Distortion                  |                      | $\leq$ 3% THD ( Linear Load ) $\leq$ 5% THD ( Non-linear Load )  |
| Transfer Time                        | AC to Battery        | 0 ms   |
|                                      | Inverter to Bypass   |  |
| Efficiency                           |                      |  |
| AC Mode                              |                      | > 93 %   |
| Battery Mode                         |                      | > 91 %   |
| Battery                              |                      |  |
| Standard Model                       | Battery Type         | 12V / 9 Ah x16   |
|                                      | Recharge Time        | 9 hours recovery to 90% capacity   |
|                                      | Charging Current     | Default : 1 A $\pm$ 10%<br>Max.: 1 A , 2 A (adjustable)  |
|                                      | Charging Voltage     | 218.4V $\pm$ 1%  |
| Long-run Model                       | Battery Type         | Depending on applications  |
|                                      | Numbers              | 16-18-20   |
|                                      | Charging Current     | Default : 4A $\pm$ 10% max.: 1A , 2A , 4A , 6A (Adjustable , 6A is only available for 16 pcs batteries)                              |
|                                      | Charging Voltage     | 218.4V $\pm$ 1% (based on 16 pcs batteries)  |
| Physical                             |                      |  |
| Standard Model with bat.             | Dimension, D x W x H | 442 x 190 x 688 (mm)   |
|                                      | Net Weight (kgs)     | 66   |
| Long-run* Model                      | Dimension, D x W x H | 442 x 190 x 318 (mm)   |
|                                      | Net Weight (kgs)     | 16   |
| Environment                          |                      |  |
| Operation Temperature                |                      | 0 ~ 50°C<br>(battery life cycle will be shorten when temperature is above 25°C)  |
| Operation Humidity                   |                      | <95% and non-condensing  |
| Operation Altitude**                 |                      | <1000 m  |
| Acoustic Noise Level                 |                      | Less than 58dB @ 1 Meter   |
| Management                           |                      |  |
| Smart RS-232 or USB                  |                      | Support Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux , Unix , and MAC   |
| Optional SNMP                        |                      | Power management from SNMP manager and web browser   |

\* Product specifications are subject to change without further notice to third parties . PowerSolid

\* Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC.

\*\* If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

**PowerSolid**  
The crown of power solution

www.powersolid.vn

info@powersolid.vn

