



HENGFU

SWITCHING POWER SUPPLY

www.hengfu.com



Company Overview

Founded in 1992, Hengfu Corporation specializes in the design and manufacture of a full range of industrial switching power supplies and is recognized as a leading brand of switching power supplies in China. We invested in two factories covering a total area of 34,000 square meters. We have various advanced equipment, such as wave soldering and reflow soldering machine, Panasonic high-speed AI machine, automatic dispenser, chip placer, ATE, ICT, ROH Stesting, environmental testing, EMC testing system, burn-in test room, data acquisition, etc. Our product line ranges from 5W to 2400W, including AC/DC and DC/DC standard, PFC, open frame, battery charging, din rail mounting, and custom-design power supplies. Only top international & domestic brand components are adopted for our key parts to ensure high reliability. We offer our customers more than 5,000 models with great flexibility, among which the major series have passed UL, CE, CB & CCC approvals.

With our high quality and market reputation, we were honored to become the main SMPS supplier for the 2008 Beijing Olympic Games, the 2009 National Day Parade, and the 2010 Shanghai World Expo. We have established long-term cooperative relationships with thousands of enterprises and some world's top 500 enterprises, involving industrial controls, elevators, escalators, laser equipment, automobile charging stations, robot control systems, photovoltaic power, and other emerging areas. Our countrywide sales team - 15 branch offices and worldwide distributors are ready to offer you professional technical support and prompt service. We are confident to offer you a total power solution and become your trustworthy power partner.



150W AC/DC Photovoltaic Power Supply



- Wide input range up to 1000VAC
- Top brand components for key parts
- Protections: Input over voltage / input under voltage / Overload / Over voltage / Short circuit
- 3 years warranty
- 199 x 98 x 50mm (L*W*H)

| | |
|---------------------------------------|--|
| Input Voltage Range | 640~1000VAC |
| Input Current | 0.4A/800VAC |
| Input Inrush Current | <40A/800VAC, cold start |
| Input Over Voltage Protection | Shut down o/p voltage @Vin=1050~1150VAC, recover @Vin≤1000VAC (rated load) |
| Input Under Voltage Protection | Hiccup mode @Vin=550~630VAC, recover @Vin≥640VAC (rated load) |
| Output Voltage Adjust Range | ±10% |
| Line Regulation | ±1% |
| Load Regulation | ±2% |
| Set up Time | ≤9000ms/800VAC |
| Rise Time | ≤80ms/800VAC |
| Hold up Time | ≥20ms/800VAC |
| Overload Protection | 115%~150%, shut down o/p voltage and intermittent startup, auto recovery |
| Over Voltage Protection | 115%~150%, shut down o/p voltage and intermittent startup, auto recovery |
| Operating Temperature | -30℃~+70℃ (refer to derating curve) |
| Cooling Method | Convection |
| Safety Standards | UL1741 (design reference) |
| EMC Standards | EN55032 Class A (design reference) |
| Withstand Voltage | I/P-O/P: 4KVAC, I/P-FG: 2KVAC, O/P-FG: 1KVAC |

| Model no. | DC Output | Tolerance | R&N | Efficiency |
|---------------|-----------|-----------|-------|------------|
| HF150W-SHW-25 | 25V 6.5A | ±3% | 200mV | 85% |

200W AC/DC Photovoltaic Power Supply



- Wide input range up to 1000VAC
- Top brand components for key parts
- Protections: Input over voltage / Input under voltage / Overload / Over voltage / Short circuit
- 3 years warranty
- 199 x 98 x 50mm (L*W*H)

| | |
|---------------------------------------|--|
| Input Voltage Range | 640~1000VAC |
| Input Current | 0.5A/800VAC |
| Input Inrush Current | <40A/800VAC, cold start |
| Input Over Voltage Protection | Shut down o/p voltage @Vin=1050~1150VAC, recover @Vin≤1000VAC (rated load) |
| Input Under Voltage Protection | Hiccup mode @Vin=550~630VAC, recover @Vin≥640VAC (rated load) |
| Output Voltage Adjust Range | ±10% |
| Line Regulation | ±1% |
| Load Regulation | ±2% |
| Set up Time | ≤9000ms/800VAC |
| Rise Time | ≤80ms/800VAC |
| Hold up Time | ≥20ms/800VAC |
| Overload Protection | 115%~150%, shut down o/p voltage and intermittent startup, auto recovery |
| Over Voltage Protection | 115%~150%, shut down o/p voltage and intermittent startup, auto recovery |
| Operating Temperature | -30℃~+70℃ (refer to derating curve) |
| Cooling Method | Convection |
| Safety Standards | UL1741 (design reference) |
| EMC Standards | EN55032 Class A (design reference) |
| Withstand Voltage | I/P-O/P: 4KVAC, I/P-FG: 2KVAC, O/P-FG: 1KVAC |

| Model no. | DC Output | Tolerance | R&N | Efficiency |
|---------------|-----------|-----------|-------|------------|
| HF200W-SHW-25 | 25V 8.0A | ±3% | 200mV | 85% |

300W AC/DC Photovoltaic Power Supply



- Wide input range up to 1000VAC
- Top brand components for key parts
- Protections: Input over voltage / input under voltage / Overload / Over voltage / Short circuit / Over temperature
- 3 years warranty
- 199 x 98 x 50mm (L*W*H)

| | |
|---------------------------------------|--|
| Input Voltage Range | 640~1000VAC |
| Input Current | 0.6A/800VAC |
| Input Inrush Current | <40A/800VAC, cold start |
| Input Over Voltage Protection | Shut down o/p voltage @Vin=1050~1150VAC, recover @Vin≤1000VAC (rated load) |
| Input Under Voltage Protection | Hiccup mode @Vin=550~630VAC, recover @Vin≥640VAC (rated load) |
| Output Voltage Adjust Range | ±10% |
| Line Regulation | ±1% |
| Load Regulation | ±2% |
| Set up Time | ≤9000ms/800VAC |
| Rise Time | ≤80ms/800VAC |
| Hold up Time | ≥20ms/800VAC |
| Overload Protection | 115%~150%, shut down o/p voltage and intermittent startup, auto recovery |
| Over Voltage Protection | 115%~150%, shut down o/p voltage and intermittent startup, auto recovery |
| Operating Temperature | -30℃~+70℃ (refer to derating curve) |
| Cooling Method | by fan (startup @Ta≥55℃) |
| Safety Standards | UL1741 (design reference) |
| EMC Standards | EN55032 Class A (design reference) |
| Withstand Voltage | I/P-O/P: 4KVAC, I/P-FG: 2KVAC, O/P-FG: 1KVAC |

| Model no. | DC Output | Tolerance | R&N | Efficiency |
|---------------|-----------|-----------|-------|------------|
| HF300W-SHW-25 | 25V 12A | ±3% | 200mV | 85% |

50W AC/DC Single Output Power Supply

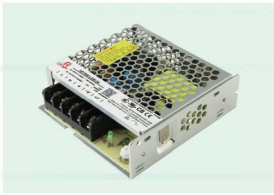


- Universal AC input range / full range
- Ultra miniature size, high reliability
- No load power consumption <0.5W
- Protections: Overload / Over voltage / Short circuit
- 3 years warranty
- 99 x 65 x 30mm (L*W*H)

| | |
|------------------------------------|--|
| Input Voltage Range | 85~264VAC (120~370VDC) |
| Input Current | 1.5A/115VAC, 0.75A/230VAC |
| Input Inrush Current | <40A/230VAC, cold start |
| Output Voltage Adjust Range | ±10% |
| Line Regulation | ±0.5% |
| Load Regulation | ±0.5% |
| Set up Time | ≤2000ms/115VAC, ≤1000ms/230VAC |
| Rise Time | ≤50ms/115VAC, ≤50ms/230VAC |
| Hold up Time | ≥10ms/115VAC, ≥50ms/230VAC |
| Overload Protection | 105%~150%, hiccup mode, auto recovery |
| Over Voltage Protection | 110%~150%, hiccup mode, auto recovery |
| Operating Temperature | -40℃~+70℃ (refer to derating curve) |
| Cooling Method | Convection |
| Safety Standards | UL62368-1, EN62368-1 |
| EMC Standards | EN55032 Class A |
| Withstand Voltage | I/P-O/P: 3.0KVAC, I/P-FG: 2.0KVAC, O/P-FG: 0.5KVAC |

| Model no. | DC Output | Tolerance | R&N | Efficiency |
|---------------|-----------|-----------|-------|------------|
| HF50W-LSE-12A | 12V 4.2A | ±1% | 150mV | 85% |
| HF50W-LSE-24A | 24V 2.2A | ±1% | 150mV | 85% |

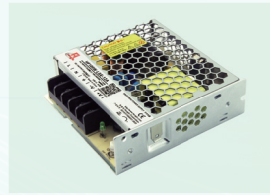
75W AC/DC Single Output Power Supply



- Universal AC input range / full range
- Super slim design, 30mm height
- Suitable for photovoltaic power tracker
- No load power consumption <1W
- Protections: Overload / Over voltage / Short circuit
- 3 years warranty
- 99 x 97 x 30mm (L*W*H)

| | |
|-----------------------------|--|
| Input Voltage Range | 85~264VAC (120~370VDC) |
| Input Current | 1.8A/115VAC, 0.9A/230VAC |
| Input Inrush Current | <40A/230VAC, cold start |
| Output Voltage Adjust Range | ±10% |
| Line Regulation | ±0.5% |
| Load Regulation | ±0.5% |
| Set up Time | ≤1000ms/115VAC, ≤500ms/230VAC |
| Rise Time | ≤50ms/115VAC, ≤50ms/230VAC |
| Hold up Time | ≥12ms/115VAC, ≥30ms/230VAC |
| Overload Protection | 105%~150%, hiccup mode, auto recovery |
| Over Voltage Protection | 115%~150%, hiccup mode, auto recovery |
| Operating Temperature | -30℃~+70℃ (refer to derating curve) |
| Cooling Method | Convection |
| Safety Standards | UL62368-1, EN62368-1 |
| EMC Standards | EN55032 Class B |
| Withstand Voltage | I/P-O/P: 3.0KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC |

100W AC/DC Single Output Power Supply



- Universal AC input range / full range
- Ultra miniature size, high reliability
- No load power consumption <0.5W
- Top brand components for key parts
- Protections: Overload / Over voltage / Short circuit
- 3 years warranty
- 99 x 97 x 30mm (L*W*H)

| | |
|-----------------------------|--|
| Input Voltage Range | 85~264VAC (120~370VDC) |
| Input Current | 2.5A/115VAC, 1.2A/230VAC |
| Input Inrush Current | <40A/230VAC, cold start |
| Output Voltage Adjust Range | ±10% |
| Line Regulation | ±0.5% |
| Load Regulation | ±0.5% |
| Set up Time | ≤500ms/115VAC, ≤500ms/230VAC |
| Rise Time | ≤50ms/115VAC, ≤50ms/230VAC |
| Hold up Time | ≥10ms/115VAC, ≥30ms/230VAC |
| Overload Protection | 105%~150%, hiccup mode, auto recovery |
| Over Voltage Protection | 115%~150%, hiccup mode, auto recovery |
| Operating Temperature | -40℃~+70℃ (refer to derating curve) |
| Cooling Method | Convection |
| Safety Standards | UL62368-1, EN62368-1 |
| EMC Standards | EN55032 Class A |
| Withstand Voltage | I/P-O/P: 3.0KVAC, I/P-FG: 2.0KVAC, O/P-FG: 0.5KVAC |

| Model no. | DC Output | | Tolerance | R&N | Efficiency |
|--------------|-----------|------|-----------|-------|------------|
| HF75W-LSM-24 | 24V | 3.2A | ±1% | 150mV | 87% |

| Model no. | DC Output | | Tolerance | R&N | Efficiency |
|----------------|-----------|------|-----------|-------|------------|
| HF100W-LSE-12A | 12V | 8.5A | ±1% | 150mV | 85% |
| HF100W-LSE-24A | 24V | 4.5A | ±1% | 150mV | 88% |

320W AC/DC Power Supply with PFC



- Super slim design, 30mm height
- Suitable for photovoltaic power tracker
- PF>0.98@115VAC; >0.94@230VAC
- Protections: Overload / Over voltage / Short circuit / Over temperature
- 3 years warranty
- 215 x 115 x 30mm (L*W*H)

| | |
|-----------------------------|--|
| Input Voltage Range | 85~264VAC (120~370VDC) |
| Input Current | 4.0A/115VAC, 2.0A/230VAC |
| Input Inrush Current | <40A/230VAC, cold start |
| Output Voltage Adjust Range | ±10% |
| Line Regulation | ±0.5% |
| Load Regulation | ±0.5% |
| Set up Time | ≤2000ms/115VAC, ≤1000ms/230VAC |
| Rise Time | ≤50ms/115VAC, ≤50ms/230VAC |
| Hold up Time | ≥12ms/115VAC, ≥12ms/230VAC |
| Overload Protection | 105%~150%, hiccup mode, auto recovery |
| Over Voltage Protection | 115%~150%, shut off, re-power on to recover |
| Operating Temperature | -30℃~+70℃ (refer to derating curve) |
| Cooling Method | by built in fan speed control |
| Safety Standards | UL62368-1, EN62368-1 |
| EMC Standards | EN55032 Class B |
| Withstand Voltage | I/P-O/P: 3.0KVAC, I/P-FG: 2.0KVAC, O/P-FG: 0.5KVAC |

80W DC/DC Photovoltaic Power Supply



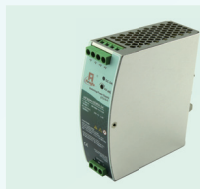
- Wide input range up to 600VDC
- Transient power reaches 160W for 100ms
- Top brand components for key parts
- Protections: Overload / Over voltage / Short circuit
- 3 years warranty
- 156 x 56.6 x 41 mm(L*W*H)

| | |
|-----------------------------|--|
| Input Voltage Range | 150~600VDC |
| Input Current | 0.7A/150VDC |
| Input Inrush Current | <80A/400VDC, cold start |
| Output Voltage Adjust Range | ±10% |
| Line Regulation | ±0.5% |
| Load Regulation | ±1% |
| Set up Time | ≤2000ms/400VDC |
| Rise Time | ≤50ms/400VDC |
| Overload Protection | 110%~150%, shut off, re-power on to recover |
| Over Voltage Protection | 115%~150%, shut off, re-power on to recover |
| Operating Temperature | -40℃~+80℃ (refer to derating curve) |
| Cooling Method | Convection |
| Safety Standards | UL1741 (design reference) |
| EMC Standards | EN55032 Class A (design reference) |
| Withstand Voltage | I/P-O/P: 4KVAC, I/P-FG: 2KVAC, O/P-FG: 1KVAC |

| Model no. | DC Output | | Tolerance | R&N | Efficiency |
|---------------|-----------|-----|-----------|-------|------------|
| HF320W-LSC-24 | 24V | 13A | ±1% | 150mV | 89% |

| Model no. | DC Output | | Tolerance | R&N | Efficiency |
|----------------|-----------|------|-----------|-------|------------|
| HF80W-SD600-24 | 24V | 3.4A | ±2% | 150mV | 82% |

80W DC/DC Din-rail Photovoltaic Power Supply



- Wide input range up to 1500VDC
- Transient power reaches 160W for 100ms
- Installed on DIN rail TS35/ 7.5 or 15
- Protections: Input over voltage/ Input under voltage / Overload/ Over voltage / Short circuit
- 3 years warranty
- 116.7 x 125.2 x 40.6mm (L*W*H)

| | |
|---------------------------------------|---|
| Input Voltage Range | 300~1500VDC |
| Input Current | 0.38A/300VDC, 0.15A/800VDC |
| Input Inrush Current | < 60A/800VDC, cold start |
| Input Over Voltage Protection | Shut down o/p voltage @Vin=1500~1700VDC, recover @Vin<1500VDC |
| Input Under Voltage Protection | Hiccup mode @Vin=200~270VDC, recover @Vin>280VDC |
| Output Voltage Adjust Range | ±10% |
| Line Regulation | ±0.5% |
| Load Regulation | ±0.5% |
| Set up Time | ≤9000ms/800VDC |
| Rise Time | ≤50ms/800VDC |
| Overload Protection | 105%~150%, hiccup mode, auto recovery |
| Over Voltage Protection | 110%~150%, hiccup mode, auto recovery |
| Operating Temperature | -40℃~+80℃ (refer to derating curve) |
| Cooling Method | Convection |
| Safety Standards | UL1741 (design reference) |
| EMC Standards | EN55032 Class A (design reference) |
| Withstand Voltage | I/P-O/P: 4KVAC, I/P-FG: 2KVAC, O/P-FG: 1KVAC |

| Model no. | DC Output | Tolerance | R&N | Efficiency |
|---------------|-----------|-----------|-------|------------|
| HF80W-DDRH-24 | 24V 3.4A | ±1% | 150mV | 84% |
| HF80W-DDRH-48 | 48V 1.7A | ±1% | 240mV | 87% |

300W DC/DC Photovoltaic Power Supply



- Wide input range up to 1500VDC
- Protections: Input over voltage / Input under voltage / Overload / Over voltage / Short circuit / Over temperature
- 3 years warranty
- 199 x 98 x 50mm (L*W*H)

| | |
|---------------------------------------|---|
| Input Voltage Range | 400~1500VDC (max. 1600VDC without damage) |
| Input Current | 0.9A/400VDC, 0.45A/800VDC |
| Input Inrush Current | < 80A/800VDC, cold start |
| Input Over Voltage Protection | Shut down o/p voltage @Vin=1600~1720VDC, recover @Vin≤1500VDC |
| Input Under Voltage Protection | Shut down o/p voltage @Vin=350±30VDC and intermittent startup |
| Output Voltage Adjust Range | 24~27V |
| Line Regulation | ±0.5% |
| Load Regulation | ±1% |
| Set up Time | ≤9000ms/800VDC |
| Rise Time | ≤100ms/800VDC |
| Overload Protection | 105%~150%, hiccup mode, auto recovery |
| Short Circuit Protection | 115%~150%, hiccup mode, auto recovery |
| Operating Temperature | -40℃~+70℃ (refer to derating curve) |
| Cooling Method | by fan (startup @Ta≥55℃) |
| Safety Standards | UL1741 (design reference) |
| EMC Standards | EN55032 Class A (design reference) |
| Withstand Voltage | I/P-O/P: 4KVAC, I/P-FG: 2KVAC, O/P-FG: 1KVAC |

| Model no. | DC Output | Tolerance | R&N | Efficiency |
|------------------|-----------|-----------|-------|------------|
| HF300W-SD1500-27 | 27V 11.2A | ±2% | 500mV | 87% |

150W DC/DC Photovoltaic Power Supply



- Wide input range up to 1500VDC
- Top brand components for key parts
- Protections: Input over voltage / Input under voltage / Overload / Over voltage / Short circuit
- 3 years warranty
- 199 x 98 x 50mm (L*W*H)

| | |
|---------------------------------------|---|
| Input Voltage Range | 400~1500VDC (max. 1600VDC without damage) |
| Input Current | 0.7A/400VDC, 0.35A/800VDC |
| Input Inrush Current | < 80A/800VDC, cold start |
| Input Over Voltage Protection | Shut down o/p voltage @Vin=1600~1720VDC, recover @Vin≤1500VDC |
| Input Under Voltage Protection | Shut down o/p voltage @Vin=350±30VDC and intermittent startup |
| Output Voltage Adjust Range | 24~27V |
| Line Regulation | ±0.5% |
| Load Regulation | ±1% |
| Set up Time | ≤9000ms/800VDC |
| Rise Time | ≤100ms/800VDC |
| Overload Protection | 105%~150%, hiccup mode, auto recovery |
| Short Circuit Protection | 115%~150%, hiccup mode, auto recovery |
| Operating Temperature | -40℃~+70℃ (refer to derating curve) |
| Cooling Method | Convection |
| Safety Standards | UL1741 (design reference) |
| EMC Standards | EN55032 Class A (design reference) |
| Withstand Voltage | I/P-O/P: 4KVAC, I/P-FG: 2KVAC, O/P-FG: 1KVAC |

| Model no. | DC Output | Tolerance | R&N | Efficiency |
|------------------|-----------|-----------|-------|------------|
| HF150W-SD1500-27 | 27V 5.6A | ±2% | 500mV | 87% |

300W DC/DC Single Output Power Supply



- Wide DC input range
- Suitable for movable charging station
- Top brand components for key parts
- Protections: Overload / Over voltage / Short circuit / Over temperature
- 3 years warranty
- 215 x 115 x 50mm (L*W*H)

| | |
|------------------------------------|--|
| Input Voltage Range | 18~36VDC |
| Input Current | 20A/18VDC |
| Output Voltage Adjust Range | ±10% |
| Line Regulation | ±0.5% |
| Load Regulation | ±0.5% |
| Set up Time | < 2000ms@full load |
| Rise Time | ≤50ms@full load (typical) |
| Overload Protection | 105%~135%, shut off, re-power on to recover |
| Over Voltage Protection | 115%~150%, shut off, re-power on to recover |
| Operating Temperature | -20℃~+70℃ (refer to derating curve) |
| Cooling Method | by built in fan speed control |
| Safety Standards | UL62368-1, EN62368-1 (design reference) |
| Withstand Voltage | I/P-O/P: 3.0KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC |

| Model no. | DC Output | Tolerance | R&N | Efficiency |
|----------------|-----------|-----------|-------|------------|
| HF300W-SD24-12 | 12V 25A | ±1% | 150mV | 76% |

With over 30 years of experience, Hengfu has become a well-known brand, with customers all over China, India, Japan, Southeast Asia, Europe, the United States, etc. We have been laying out in the photovoltaic power generation industry for nearly a decade.

Based on our thorough studies and professional capabilities, we have worked with series ranging from 30 to 300W, which offer flexible power solutions for different photovoltaic systems. We introduced high-tech talents and professional equipment to contribute to the development of clean and efficient solar energy worldwide.

Renewable Energy Applications



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