

10W Triple Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F601 100 × 58 × 31(mm)

AC input voltage range170~264VAC (210~370VDC)
Inrush currentcold start, 30A/230V
Input leakage current.....< 0.7mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Voltage tolerance.....V₁: ≤ ± 1%, V₂,V₃: ≤ ± 3% (with regulators);
≤ ± 10% (without)
Output voltage adjust rangeV_i: ± 5% of rated output voltage
Output overload protection105~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....design meet GB4943, UL60950, EN60950
Cooling methodconvection

Model	DC Output		R&N	Efficiency
	5V	0.3~1.5A		
HF10W-T-A	+12V	0.0~0.2A	120mV	68%
	-12V	0.0~0.1A	120mV	
	5V	0.2~1.3A	80mV	
HF10W-T-B	+15V	0.0~0.2A	120mV	69%
	-15V	0.0~0.1A	120mV	
	5V	0.2~1.2A	80mV	
HF10W-T-C	+12V	0.0~0.25A	120mV	63%
	-5V	0.0~0.2A	80mV	

35W Triple Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

AC input voltage range170~264VAC (210~370VDC)
Inrush currentcold start, 40A/230V
Input leakage current.....< 0.7mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Voltage tolerance.....V₁: ≤ ± 1%, V₂,V₃: ≤ ± 3% (with regulators);
≤ ± 10% (without)
Output voltage adjust rangeV_i: ± 5% of rated output voltage
Output overload protection105~150%
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....design meet GB4943, UL60950, EN60950
Cooling methodconvection

Model	DC Output		R&N	Efficiency
	5V	0.5~4.0A		
HF35W-T-A	+12V	0.0~1.2A	120mV	67%
	-12V	0.0~1.0A	120mV	
	5V	0.5~4.0A	80mV	
HF35W-T-B	+15V	0.0~0.5A	120mV	70%
	-15V	0.0~0.5A	120mV	
	5V	0.5~3.0A	80mV	
HF35W-T-C	+12V	0.0~1.0A	120mV	65%
	-5V	0.0~1.0A	80mV	

70W Triple Output Standard Series

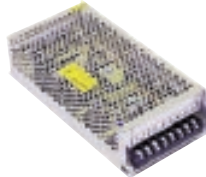


- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range170~264VAC (210~370VDC)
Inrush currentcold start, 40A/230V
Input leakage current.....< 0.7mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Voltage tolerance.....V₁: ≤ ± 1%, V₂,V₃: ≤ ± 3% (with regulators);
≤ ± 10% (without)
Output voltage adjust rangeV_i: ± 5% of rated output voltage
Output overload protection105~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....design meet GB4943, UL60950, EN60950
Cooling methodconvection

Model	DC Output		R&N	Efficiency
	5V	0.8~6.0A		
HF70W-T-A	12V	0.0~2.0A	120mV	73%
	-12V	0.0~1.0A	120mV	
	5V	1.0~7.0A	80mV	
HF70W-T-B	+15V	0.0~1.5A	120mV	77%
	-15V	0.0~1.0A	120mV	
	5V	1.0~5.0A	80mV	
HF70W-T-H	12V	0.0~1.0A	120mV	73%
	24V	0.0~1.0A	150mV	

150W Triple Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F615 199 × 98 × 50(mm)

AC input voltage range170~264VAC (210~370VDC)
Inrush currentcold start, 40A/230V
Input leakage current.....< 0.7mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Voltage tolerance.....V₁: ≤ ± 1%, V₂,V₃: ≤ ± 3%
Output voltage adjust rangeV_i: ± 5% of rated output voltage
Output overload protection105~130%
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise time.....50ms@full load (typical)
Hold up time20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....design meet GB4943, UL60950, EN60950
Cooling methodconvection

Model	DC Output		R&N	Efficiency
	24V	0.5~4.0A		
HF150W-T-A	12V	0.0~3.0A	120mV	78%
	5V	0.0~3.0A	100mV	
	24V	1.0~5.0A	150mV	
HF150W-T-B	+12V	0.0~1.0A	120mV	85%
	-12V	0.0~1.0A	120mV	
	5V	1.0~6.0A	100mV	
HF150W-T-L	12V	0.1~4.0A	120mV	74%
	24V	0.0~2.5A	150mV	

20W Triple Output Standard Series

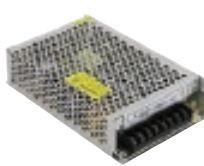


- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F602 111 × 78 × 36(mm)

AC input voltage range170~264VAC (210~370VDC)
Inrush currentcold start, 30A/230V
Input leakage current.....< 0.7mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Voltage tolerance.....V₁: ≤ ± 1%, V₂,V₃: ≤ ± 3% (with regulators);
≤ ± 10% (without)
Output voltage adjust rangeV_i: ± 5% of rated output voltage
Output overload protection105~150%
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....design meet GB4943, UL60950, EN60950
Cooling methodconvection

Model	DC Output		R&N	Efficiency
	5V	0.3~3.0A		
HF20W-T-A	+12V	0.0~1.0A	120mV	69%
	-12V	0.0~0.5A	120mV	
	5V	0.4~2.0A	80mV	
HF20W-T-B	+15V	0.0~0.35A	120mV	68%
	-15V	0.0~0.35A	120mV	
	5V	0.4~2.0A	80mV	
HF20W-T-C	+12V	0.0~0.5A	120mV	70%
	-5V	0.0~1.0A	80mV	

55W Triple Output Standard Series

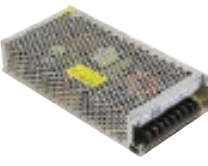


- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range170~264VAC (210~370VDC)
Inrush currentcold start, 40A/230V
Input leakage current.....< 0.7mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Voltage tolerance.....V₁: ≤ ± 1%, V₂,V₃: ≤ ± 3% (with regulators);
≤ ± 10% (without)
Output voltage adjust rangeV_i: ± 5% of rated output voltage
Output overload protection105~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....design meet GB4943, UL60950, EN60950
Cooling methodconvection

Model	DC Output		R&N	Efficiency
	5V	1.0~6.0A		
HF55W-T-A	+12V	0.0~1.0A	120mV	72%
	-12V	0.0~1.0A	120mV	
	5V	1.0~5.0A	80mV	
HF55W-T-B	+15V	0.0~1.0A	120mV	70%
	-15V	0.0~1.0A	120mV	
	5V	1.0~5.0A	80mV	
HF55W-T-C	+12V	0.0~1.5A	120mV	69%
	-5V	0.0~2.0A	80mV	

100W Triple Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F610 199 × 98 × 39(mm)

AC input voltage range170~264VAC (210~370VDC)
Inrush currentcold start, 40A/230V
Input leakage current.....< 0.7mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Voltage tolerance.....V₁: ≤ ± 1%, V₂,V₃: ≤ ± 3%
Output voltage adjust rangeV_i: ± 5% of rated output voltage
Output overload protection105~130%
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise time.....50ms@full load (typical)
Hold up time20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....design meet GB4943, UL60950, EN60950
Cooling methodconvection

Model	DC Output		R&N	Efficiency
	5V	2.0~12.0A		
HF100W-T-A	+12V	0.0~2.0A	120mV	74%
	-12V	0.0~1.0A	120mV	
	5V	2.0~10.0A	100mV	
HF100W-T-B	+15V	0.0~2.0A	120mV	75%
	-15V	0.0~1.0A	120mV	
	5V	1.0~6.0A	100mV	
HF100W-T-D	12V	0.0~2.0A	120mV	76%
	24V	0.0~2.0A	150mV	

300W Triple Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630 241 × 124 × 65(mm)

AC input voltage range170~264VAC (210~370VDC)
Inrush currentcold start, 60A/230V
Input leakage current.....< 0.7mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Voltage tolerance.....V₁: ≤ ± 1%, V₂,V₃: ≤ ± 3%
Output voltage adjust rangeV_i: ± 5% of rated output voltage
Output overload protection105~130%, current limiting, auto recovery
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise time.....50ms@full load (typical)
Hold up time20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....design refer to GB4943, UL60950, EN60950
Cooling methodfan

Model	DC Output		R&N	Efficiency
	24V	2.0~11.0A		
HF300W-T-A	12V	0.0~2.0A	150mV	82%
	12V	0.0~1.0A	150mV	
	27V	2.0~10.0A	200mV	
HF300W-T-B	12V	0.0~3.0A	150mV	83%
	5V	0.0~2.0A	120mV	
	24V	2.0~10.0A	150mV	
HF300W-T-H	12V	0.0~3.0A	150mV	82%
	5V	0.0~2.0A	120mV	

55W Dual Output for Battery Charging



- High reliability, low cost
- To charge lead acid battery
- Auto switch when power off (UPS function)
- Charging current limited
- Battery low protection
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range	170~264VAC (210~370VDC)
Input frequency.....	47~63Hz
Inrush current	cold start, 40A/230V
Input leakage current.....	< 0.7mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	V _i : ± 5% of rated output voltage V _z : unadjustable
Output overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage.....	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	design meet GB4943, UL60950, EN60950
Cooling method	convection
Packing	0.46kg/pcs, 30pcs/CTN

Model	DC Output		R&N	Efficiency
HF55W-D-U	12.8V	4.0A	120mV	77%
	13.8V	0.2A(Charger)		

155W Battery Charging Power Supply

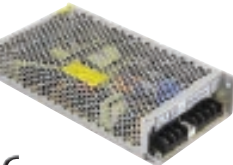


- To charge lead acid battery
- Auto switch when power off (UPS function)
- AC mains failure signal
- Battery low signal
- Battery anti reverse connection protection
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615 199 × 98 × 50(mm)

AC input voltage range.....	85~132/ 170~264VAC selected by switch
Input frequency.....	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	V _i : ± 5% of rated output voltage V _z : unadjustable
Output overload protection	105~130%, shut off, re-power on to recover
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage.....	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	GB4943, UL60950, EN60950
EMC standards.....	GB9254, EN55022 class B EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Packing	0.74kg/pcs, 20pcs/CTN

Model	DC Output		R&N	Efficiency
HF155W-SB-13.8	13.8V	11.5A	120mV	82%
	13.3V	0.5A(Charger)		
HF155W-SB-27.6	27.6V	5.5A	150mV	85%
	27.1V	0.5A(Charger)		

100W Battery Charging Power Supply



- To charge lead acid battery
- Auto switch when power off (UPS function)
- AC mains failure signal
- Battery low signal
- Battery anti reverse connection protection
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F610 199 × 98 × 39(mm)

AC input voltage range	85~132/ 170~264VAC selected by switch
Input frequency.....	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	V _i : ± 5% of rated output voltage V _z : unadjustable
Output overload protection	105~130%, shut off, re-power on to recover
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage.....	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	GB4943, UL60950, EN60950
EMC standards.....	GB9254, EN55022 class B, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Packing	0.64kg/pcs, 28pcs/CTN

Model	DC Output		R&N	Efficiency
HF100W-SB-13.8	13.8V	6.0A	120mV	79%
	13.3V	0.5A(Charger)		
HF100W-SB-27.6	27.6V	3.0A	150mV	78%
	27.1V	0.5A(Charger)		

15W Single Output DIN Rail Series



- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- DC OK signal output
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F6015DRA 35 × 73.5 × 63.4(mm)

AC input voltage range.....	85~264VAC (120~370VDC)
Input frequency.....	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	clamping by zener diode
Withstand voltage.....	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	UL508, UL60950, EN60950
EMC standards.....	EN55022 class B, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Connection	3P/ 7.5mm pitch, plug-in terminal block
Weight	0.17kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF15W-SDR-12	12V	1.25A	0.5%	120mV	82%
HF15W-SDR-15	15V	1.0A	0.5%	120mV	82%
HF15W-SDR-24	24V	0.63A	0.5%	150mV	82%
HF15W-SDR-48	48V	0.3A	0.5%	150mV	83%

30W Single Output DIN Rail Series



- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- DC OK signal output
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F603DRA 35 × 89.2 × 75.2(mm)

AC input voltage range.....	85~264VAC (120~370VDC)
Input frequency.....	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage.....	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	UL508, UL60950, EN60950
EMC standards.....	EN55022 class B, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Connection	3P/ 7.5mm pitch 3P/ 5.0mm pitch, clip terminal block
Weight	0.25kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF30W-SDR-12	12V	2.5A	0.5%	120mV	81%
HF30W-SDR-15	15V	2.0A	0.5%	120mV	82%
HF30W-SDR-24	24V	1.5A	0.5%	150mV	83%
HF30W-SDR-48	48V	0.63A	0.5%	150mV	86%

50W Single Output DIN Rail Series



- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- DC OK signal output
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605DR 45 × 89.2 × 75.2(mm)

AC input voltage range.....	85~264VAC (120~370VDC)
Input frequency.....	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage.....	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	UL508, UL60950, EN60950
EMC standards.....	EN55022 class B, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Connection	3P/ 7.5mm pitch 5P/ 5.0mm pitch, plug-in terminal block
Weight	0.31kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF50W-SDR-12	12V	4.2A	0.5%	120mV	80%
HF50W-SDR-13.8	13.8V	3.6A	0.5%	120mV	80%
HF50W-SDR-24	24V	2.1A	0.5%	150mV	80%
HF50W-SDR-48	48V	1.0A	0.5%	150mV	86%

75W Single Output DIN Rail Series



- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F606DR 45 × 101.2 × 90.2(mm)

AC input voltage range.....	85~264VAC (120~370VDC)
Input frequency.....	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage.....	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	UL508, UL60950, EN60950
EMC standards.....	EN55022 class B, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Connection	3P/ 7.5mm pitch 4P/ 5.0mm pitch, plug-in terminal block
Weight	0.42kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF75W-SDR-12	12V	6.3A	0.5%	120mV	83%
HF75W-SDR-24	24V	3.2A	0.5%	150mV	86%
HF75W-SDR-48	48V	1.6A	0.5%	150mV	87%

120W Single Output DIN Rail Series



- AC input range selected by switch
- High reliability, low cost
- Installed on DIN rail TS35/ 7.5 or 15
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F612DRB 45.4 × 99.5 × 114(mm)

AC input voltage range.....	85~132/ 170~264VAC selected by switch
Input frequency.....	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage.....	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	UL508, UL60950, EN60950
EMC standards.....	EN55022 class B, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Connection	3P/ 7.5mm pitch 4P/ 5.0mm pitch, plug-in terminal block
Weight	0.54kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF120W-SFDR-12	12V	10.0A	0.5%	120mV	83%
HF120W-SFDR-24	24V	5.0A	0.5%	150mV	86%
HF120W-SFDR-48	48V	2.5A	0.5%	150mV	87%

120W Single Output DIN Rail - with PFC



- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- Installed on DIN rail TS35/ 7.5 or 15
- OCP indication
- High reliability, compact design
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F612DR 50 × 107 × 120.2(mm)

AC input voltage range85~264VAC (120~370VDC)
Input frequency.....47~63Hz
Inrush currentcold start, 20A/115V, 40A/230V
Input leakage current.....< 1mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Output voltage adjust range± 10%
Output overload protection105~130%, delay shutdown, re-power on to recover
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P: 3.0KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise time.....50ms@full load (typical)
Hold up time20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....UL508, UL60950, EN60950
EMC standards.....EN55022 class B, EN55024
EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling methodconvection
Connection3P/ 7.5mm pitch
4P/ 5.0mm pitch, plug-in terminal block
Weight0.64kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF120W-SDR-12	12V	10.0A	0.5%	120mV	84%
HF120W-SDR-24	24V	5.0A	0.5%	150mV	85%
HF120W-SDR-48	48V	2.5A	0.5%	150mV	87%

150W Single Output DIN Rail Series



- AC input range selected by jumper
- Installed on DIN rail TS35/ 7.5 or 15
- Approvals: UL508 listed, UL/ CUL/ CE
- High reliability, compact design
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615DRA 108.4 × 74.2 × 109(mm)

AC input voltage range85~132/ 170~264VAC selected by jumper
Input frequency.....47~63Hz
Inrush currentcold start, 40A/230V
Input leakage current.....< 1mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Output voltage adjust range± 10%
Output overload protection105~150%, delay shutdown, re-power on to recover
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P:3.0KVAC/1min;I/P-F/G:1.5KVAC/1min
O/P-F/G:0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....UL508, UL60950, EN60950 approved
EMC standards.....EN55022 class B
EN61000-4-2,3,4,5,6,8,11
Cooling methodconvection
Connection3P/ 6.35mm pitch
4P/ 6.35mm pitch, screw terminal block
Weight0.67kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF150W-SDR-12	12V	12.5A	0.5%	83%
HF150W-SDR-13.8	13.8V	11.0A	0.5%	83%
HF150W-SDR-15	15V	10.0A	0.5%	83%
HF150W-SDR-24	24V	6.3A	0.5%	84%
HF150W-SDR-48	48V	3.1A	0.5%	85%

150W Single Output DIN Rail - Wide Range

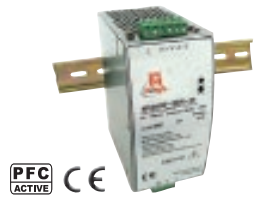


- Wide AC input range up to 528VAC
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615DRB 74.4 × 114.2 × 129.2(mm)

AC input voltage range170~528VAC (single & two phase)
Input frequency.....47~63Hz
Inrush currentcold start, 40A/230V
Input current< 1.6A/ 230VAC
Input leakage current.....< 1mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Output currentrated 6A, peak 10A for 3 seconds
Output voltage range23~28VDC, rated 24VDC
Output overload protection105~150%, delay shutdown, re-power on to recover
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P: 3.0KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise time.....50ms@full load (typical)
Hold up time20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....UL508, UL60950, EN60950
EMC standards.....EN55022 class B,
EN61000-4-2,3,4,5,6,8,11
Cooling methodconvection
Connection3P/ 6.35mm pitch
4P/ 6.35mm pitch, screw terminal block
Weight0.94kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF150W-WDR-24	24V	6.0A	2.0%	200mV
			82%	

240W Single Output DIN Rail - with PFC



- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- Installed on DIN rail TS35/ 7.5 or 15
- High efficiency up to 90%
- ZCS technology to reduce power dissipation
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F624DRA 63.2 × 114.4 × 125.2(mm)

AC input voltage range85~264VAC (120~370VDC)
Input frequency.....47~63Hz
Inrush currentcold start, 20A/115V, 40A/230V
Input leakage current.....< 1mA/ 230VAC
Line regulation (full load)≤ ± 0.5%
Output voltage adjust range± 10%
Output overload protection105~130%, delay shutdown, re-power on to recover
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P: 3.0KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise time.....50ms@full load (typical)
Hold up time20ms@full load (typical)
Operating temperature-20℃~+50℃
Safety standards.....UL508, UL60950, EN60950
EMC standards.....EN55022 class B, EN55024
EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling methodconvection
Connection3P/ 7.5mm pitch
6P/ 5.0mm pitch, plug-in terminal block
Weight0.90kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF240W-SDR-24	24V	10.0A	0.5%	150mV
HF240W-SDR-48	48V	5.0A	0.5%	150mV
			91%	92%

100W~600W Single Output Rain-proof Series

Features:

- High reliability, low cost
- IP21 design, suitable for outdoor or damp locations
- Built-in EMI filter
- Protections: overload/ short circuit
- 2 years warranty

Product picture						
	F610YS	F620YS	F640YS	F640YS	F640YS	
Model No.	HF100W-YS		HF200W-YS	HF400W-YS	HF500W-YS	HF600W-YS
Dimension (mm)	191.5×101.4×61.7		220×117.6×71.5	236.5×138.4×67.5	236.5×138.4×67.5	236.5×138.4×67.5
Weight & packing	0.46kg, 20pcs/CTN		0.78kg, 20pcs/CTN	1.06kg, 16pcs/CTN	1.06kg, 16pcs/CTN	1.06kg, 16pcs/CTN
AC input voltage range	170~264VAC (210~370VDC)					
Input frequency	47~63Hz					
Inrush current	cold start, 40A/230VAC			cold start, 60A/230VAC		
Input leakage current	< 0.7mA/ 230VAC					
Line regulation (full load)	≤ ± 0.5%					
Voltage adjust range	± 10%					
Overload protection	105~150%, hiccup mode, auto recovery			105~130%, shut off, re-power on to recover		
Short circuit protection	hiccup mode, auto recovery			shut off, re-power on to recover		
Withstand voltage	I/P -O/P: 1.5KVAC/1min; I/P -F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min					
Rise time	50ms@full load (typical)					
Hold up time	20ms@full load (typical)					
Operating temperature	-20℃~-+50℃					
Safety standards	design refer to GB4943, UL60950, EN60950					
Cooling method	convection			fan		

100W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF100W-YS-12	12V	9.0A	0.5%	120mV
HF100W-YS-24	24V	4.2A	0.5%	150mV
HF100W-YS-36	36V	3.0A	0.5%	150mV

200W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF200W-YS-12	12V	16.7A	0.5%	120mV
HF200W-YS-24	24V	8.3A	0.5%	150mV
HF200W-YS-36	36V	5.6A	0.5%	150mV

400W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF400W-YS-12	12V	33.0A	0.5%	120mV
HF400W-YS-24	24V	17.0A	0.5%	150mV
HF400W-YS-36	36V	13.0A	0.5%	200mV

500W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF500W-YS-12	12V	42.0A	0.5%	120mV
HF500W-YS-24	24V	21.0A	0.5%	150mV
HF500W-YS-36	36V	14.0A	0.5%	200mV

600W Single Output

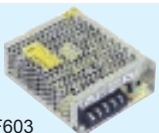
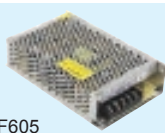
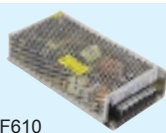
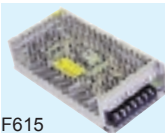
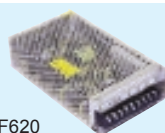
Model	DC Output	Load regul.	R&N	Efficiency
HF600W-YS-12	12V	50.0A	0.5%	120mV
HF600W-YS-24	24V	25.0A	0.5%	150mV
HF600W-YS-36	36V	16.5A	0.5%	200mV



40W~400W 1~2 Output Telecom Series

Features:

- Wide AC input range up to 280VAC
 - Wide operating temperature
 - Applicable to severe working condition
 - Built-in lightningproof 3000A (8/20us)
- AC input failure signal (option)
 - Protections: overload/ over voltage/ short circuit/ over temperature (HF300W-ST/DT, HF400W-ST/DT)
 - 5 years limited warranty

Product picture						
Model No.	HF40W-ST	HF70W-ST/DT	HF100W-ST/DT	HF150W-ST/DT	HF200W-ST/DT	HF300~400W-ST/DT
Dimension (mm)	129×98×40	160×98×39	199×98×39	199×98×50	200×110×50	241×124×65
Weight & packing	0.36kg, 42pcs/CTN	0.46kg, 30pcs/CTN	0.60kg, 28pcs/CTN	0.68kg, 20pcs/CTN	0.85kg, 20pcs/CTN	1.22kg, 16pcs/CTN
AC input voltage range	160~280VAC (210~370VDC)					
Input frequency	47~63Hz					
Inrush current	cold start, 40A/230VAC					cold start, 60A/230V
Input leakage current	< 1mA/ 230VAC					
Line regulation (full load)	≤ ± 0.5%					
Voltage tolerance	V ₁ : ≤ ± 1%, V ₂ : ≤ ± 3%					
Voltage adjust range	single output: ± 10%; dual output: V ₁ : ± 5% of rated output voltage					
Overload protection	105~150%, hiccup mode, auto recovery		105~130%, shut off, re-power on to recover			105~130%, current limiting, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery		115~150%, shut off, re-power on to recover			
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P -F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min					
Rise time	50ms@full load (typical)					
Hold up time	20ms@full load (typical)					
Operating temperature	-30℃~+65℃ (refer to the derating curve)					
Safety standards	design meet GB4943, UL60950, EN60950					
Cooling method	convection					fan

40W Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF40W-ST-13.8	13.8V	2.9A	0.5%	120mV	80%
HF40W-ST-27	27V	1.5A	0.5%	150mV	83%
HF40W-ST-48	48V	0.9A	0.5%	150mV	84%

70W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF70W-ST-13.8	13.8V	5.0A	0.5%	120mV	82%
HF70W-ST-27	27V	2.6A	0.5%	150mV	83%
HF70W-ST-48	48V	1.5A	0.5%	150mV	84%
HF70W-DT-B	27V	2.2A	0.5%	150mV	81%
	12V	1.0A	0.5%	120mV	

100W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-ST-13.8	13.8V	7.2A	0.5%	120mV	83%
HF100W-ST-27	27V	3.7A	0.5%	150mV	85%
HF100W-ST-28	28V	3.5A	0.5%	150mV	85%
HF100W-ST-48	48V	2.2A	0.5%	150mV	87%
HF100W-DT-B	27V	3.0A	0.5%	150mV	83%
	12V	2.0A	0.5%	120mV	

150W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-ST-13.8	13.8V	10.9A	0.5%	120mV	85%
HF150W-ST-27	27V	5.6A	0.5%	150mV	87%
HF150W-ST-48	48V	3.1A	0.5%	150mV	89%
HF150W-DT-B	27V	4.0A	0.5%	150mV	79%
	12V	4.0A	0.5%	120mV	
HF150W-DT-E	30V	5.0A	0.5%	150mV	84%
	12V	1.5A	0.5%	120mV	

200W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-ST-13.8	13.8V	14.5A	0.5%	120mV	85%
HF200W-ST-27	27V	8.0A	0.5%	150mV	86%
HF200W-ST-28	28V	8.0A	0.5%	150mV	86%
HF200W-ST-48	48V	4.2A	0.5%	150mV	88%
HF200W-DT-A	27V	6.0A	0.5%	150mV	86%
	9V	3.0A	0.5%	120mV	
HF200W-DT-B	27V	6.0A	0.5%	150mV	83%
	12V	3.0A	0.5%	120mV	

300W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF300W-ST-27	27V	11.1A	0.5%	200mV	85%
HF300W-ST-48	48V	6.3A	0.5%	240mV	88%
HF300W-DT-B	27V	10.0A	0.5%	200mV	84%
	12V	3.0A	0.5%	120mV	

400W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF400W-ST-27	27V	15.0A	0.5%	200mV	86%
HF400W-ST-48	48V	8.3A	0.5%	240mV	88%
HF400W-DT-B	27V	15.0A	0.5%	200mV	84%
	12V	3.0A	0.5%	120mV	



20W~60W LED Power Supply - Constant Current



Features:

- Universal AC input / full range
- Plastic cover, IP67 design
- Constant current design
- Isolation class 2, no PE
- High reliability, low cost
- Protections: over voltage/ short circuit
- 2 years warranty

Model No.	HF20W-PLD	HF35W-PLD	HF60W-PLD
Dimension (mm)	118×35×26	148×40×30	162.5×42.5×32
Weight	0.20kg/pcs	0.31kg/pcs	0.41kg/pcs
AC input voltage range	90~264VAC (127~370VDC)		
Input frequency	47~63Hz		
Inrush current	cold start, 35A/115V, 70A/230V		
Input leakage current	< 0.25mA/ 230VAC		
Line regulation (full load)	≤ ± 0.5%		
Overload protection	± 5% current limiting, auto recovery		
Over voltage protection	115~150%, shut off, re-power on to recover		
Withstand voltage	I/P -O/P: 3.75KVAC/1min		
Rise time	50ms@full load (typical)		
Hold up time	20ms@full load (typical)		
Operating temperature	-30℃~+50℃		
Safety standards	design refer to UL1310 Class 2, UL8750 EN60950, EN61347		
EMC standards	design refer to EN55015, EN55022 Class B, EN61000-3-2 Class A, EN61000-3-3, EN55024, EN61547		
Cooling method	convection		

20W Single Output

Model	DC Output		Current Tol.	R&N	Efficiency
HF20W-PLD-350	9~48V	350mA	± 5%	200mV	86%
HF20W-PLD-700	9~30V	700mA	± 5%	200mV	84%

35W Single Output

Model	DC Output		Current Tol.	R&N	Efficiency
HF35W-PLD-700	9~48V	700mA	± 5%	200mV	88%
HF35W-PLD-1050	9~30V	1050mA	± 5%	200mV	86%
HF35W-PLD-1400	9~24V	1400mA	± 5%	200mV	85%

60W Single Output

Model	DC Output		Current Tol.	R&N	Efficiency
HF60W-PLD-1050	9~48V	1050mA	± 5%	200mV	83%
HF60W-PLD-1400	9~42V	1400mA	± 5%	200mV	88%
HF60W-PLD-1750	9~34V	1750mA	± 5%	200mV	86%

20W~60W LED Power Supply - Constant Voltage



Features:

- Universal AC input / full range
- Plastic cover, IP67 design
- Constant voltage design
- Isolation class 2, no PE
- High reliability, low cost
- Protections: overload/ over voltage/ short circuit
- 2 years warranty

20W Single Output

Model	DC Output		Voltage Tol.	R&N	Efficiency
HF20W-PLV-12	12V	1.70A	± 3%	120mV	80%
HF20W-PLV-15	15V	1.33A	± 3%	120mV	81%
HF20W-PLV-24	24V	0.84A	± 3%	150mV	82%
HF20W-PLV-48	48V	0.42A	± 3%	150mV	84%

35W Single Output

Model	DC Output		Voltage Tol.	R&N	Efficiency
HF35W-PLV-12	12V	3.0A	± 3%	120mV	80%
HF35W-PLV-15	15V	2.4A	± 3%	120mV	80%
HF35W-PLV-24	24V	1.5A	± 3%	150mV	81%
HF35W-PLV-48	48V	0.75A	± 3%	150mV	83%

60W Single Output

Model	DC Output		Voltage Tol.	R&N	Efficiency
HF60W-PLV-12	12V	5.0A	± 3%	150mV	82%
HF60W-PLV-15	15V	4.0A	± 3%	150mV	82%
HF60W-PLV-24	24V	2.5A	± 3%	200mV	83%
HF60W-PLV-48	48V	1.25A	± 3%	200mV	84%

800W Parallel (N+1) with PFC



- PF>0.98@230VAC
- Built in remote sense
- Remote ON/OFF control
- Built in power good signal output
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F680SCN 290 × 120 × 68(mm)

AC input voltage range90~264VAC (refer to the derating curve)
Input frequency47~63Hz
Inrush currentcold start, 60A/230VAC
Input leakage current.....< 3.5mA/ 230VAC
Line regulation (full load) $\leq \pm 0.5\%$
Output voltage adjust range $\pm 3\%$
Output overload protection110~130%, current limiting, delay shut down, re-power on to recover
Output over voltage protection115~135%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P:3.0KVAC/1min;I/P-F/G:1.5KVAC/1min
O/P-F/G:0.5KVAC/1min
Rise, Hold up time400ms, 12ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet EN55022 classA, EN61000-3-2,3
EN61000-4-2,3,4,5,6,8,11
Cooling methodfan
Weight2.7kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF800W-SCN-12	12V	66.0A	0.5%	120mV	84%
HF800W-SCN-24	24V	33.0A	0.5%	240mV	88%
HF800W-SCN-48	48V	16.0A	0.5%	480mV	89%

2400W Parallel (N+1) with PFC



- PF>0.95@230VAC
- Built in remote sense
- Remote ON/OFF control
- Built in power good signal output
- Current sharing up to 3 units
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F6240CN 278 × 177.8 × 63.5(mm)

AC input voltage range180~264VAC (260~370VDC)
Input frequency47~63Hz
Inrush currentcold start, 60A/230VAC
Input leakage current.....< 2mA/ 230VAC
Line regulation (full load) $\leq \pm 0.5\%$
Output voltage adjust range $\pm 10\%$
Output overload protection100~112%, current limiting, delay shut down, re-power on to recover
Output over voltage protection115~140%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P:3.0KVAC/1min;I/P-F/G:1.5KVAC/1min
O/P-F/G:0.5KVAC/1min
Rise, Hold up time80ms, 12ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet EN55022 classA, EN61000-3-2,3
EN61000-4-2,3,4,5,6,8,11
Cooling methodfan
Weight3.3kg/pcs

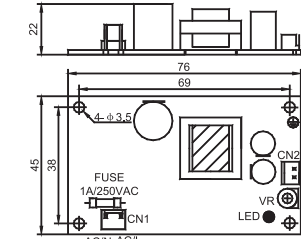
Model	DC Output		Load regul.	R&N	Efficiency
HF2400W-SCN-12	12V	166.7A	0.5%	150mV	87%
HF2400W-SCN-24	24V	100.0A	0.5%	150mV	90%
HF2400W-SCN-48	48V	50.0A	0.5%	200mV	91%

5W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 76 × 45 × 22(mm)



- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty



AC input voltage range85~264VAC (120~370VDC)
Inrush currentcold start, 15A/115V, 30A/230V
Output voltage adjust range $\pm 10\%$
Output overload protectionbuilt-in IC protection, hiccup mode, auto recovery
Output over voltage protectionclamping by zener diode
Over temp. protectionIC, Tj: 135°C, power shutdown
Withstand voltage.....I/P -O/P:3.0KVAC/1min;I/P-F/G:1.5KVAC/1min
O/P-F/G:0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet GB9254, EN55022 class B, EN61000
Connection2P/ 5.08mm, 2P/ 2.54mm pitch
Weight0.05kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF5W-SPL-5	5V	1.0A	0.5%	80mV	69%
HF5W-SPL-12	12V	0.4A	0.5%	120mV	74%
HF5W-SPL-24	24V	0.2A	0.5%	150mV	75%
HF5W-SPL-48	48V	0.1A	0.5%	150mV	80%

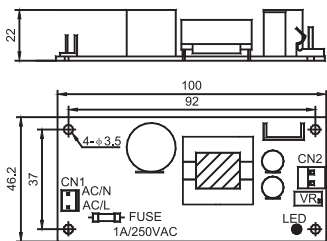
* 3~48VDC output all available.

15W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Approvals: UL/CUL/CE
- 100 × 46.2 × 22(mm)



- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty



AC input voltage range85~264VAC (120~370VDC)
Inrush currentcold start, 15A/115V, 30A/230V
Output voltage adjust range $\pm 10\%$
Output overload protection105~150%, hiccup mode, auto recovery
Output over voltage protectionclamping by zener diode
Over temp. protectionIC, Tj: 135°C, power shutdown
Withstand voltage.....I/P -O/P:3.0KVAC/1min;I/P-F/G:1.5KVAC/1min
O/P-F/G:0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....GB4943, UL60950, EN60950
EMC standards.....GB9254, EN55022 class B, EN61000
Connection2P/ 5.08mm, 2P/ 3.96mm pitch
Weight0.09kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF15W-SPL-5	5V	3.0A	0.5%	80mV	73%
HF15W-SPL-12	12V	1.3A	0.5%	120mV	82%
HF15W-SPL-24	24V	0.65A	0.5%	150mV	81%
HF15W-SPL-48	48V	0.32A	0.5%	150mV	85%

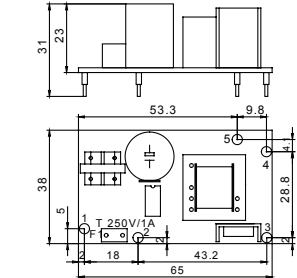
* 3~48VDC output all available.

15W Open Frame Series - On Board Type

- Assemble on the main PCB of the system
- Universal AC input / full range
- Miniature PCB structure
- 65 × 38 × 31(mm)



- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty



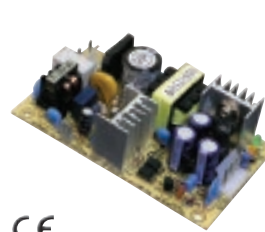
AC input voltage range90~264VAC (127~370VDC)
Input leakage current.....< 0.7mA/ 230VAC
Output voltage adjustment.....not adjustable
Output overload protection105~150%, hiccup mode, auto recovery
Output over voltage protectionclamping by zener diode
Over temp. protectionIC, Tj: 135°C, power shutdown
Withstand voltage.....I/P -O/P:3.0KVAC/1min
Rise, Hold up time100ms, 5ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....design meet GB4943, UL60950, EN60950
EMC standards.....design meet GB9254, EN55022 classA, EN61000
Cooling methodconvection
Weight0.06kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF15W-SPM-5	5V	3.00A	$\pm 3\%$	80mV	80%
HF15W-SPM-12	12V	1.25A	$\pm 3\%$	120mV	82%
HF15W-SPM-15	15V	1.00A	$\pm 3\%$	120mV	83%
HF15W-SPM-24	24V	0.63A	$\pm 3\%$	150mV	83%

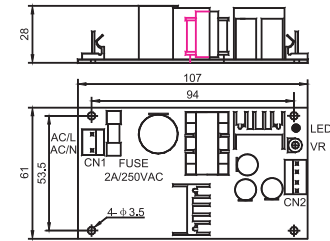
* 3.3~48VDC output all available.

25W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 107 × 61 × 28(mm)



- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty



AC input voltage range85~264VAC (120~370VDC)
Inrush currentcold start, 20A/115V, 40A/230V
Output voltage adjust range $\pm 10\%$
Output overload protectionbuilt-in IC protection, hiccup mode, auto recovery
Output over voltage protection115~150%, shut off, re-power on to recover
Over temp. protectionIC, Tj: 135°C, power shutdown
Withstand voltage.....I/P -O/P:3.0KVAC/1min;I/P-F/G:1.5KVAC/1min
O/P-F/G:0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet GB9254, EN55022 class B, EN61000
Connection2P/ 7.92mm, 4P/ 3.96mm pitch
Weight0.13kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF25W-SPL-5	5V	5.0A	0.5%	80mV	74%
HF25W-SPL-12	12V	2.1A	0.5%	120mV	81%
HF25W-SPL-24	24V	1.1A	0.5%	150mV	81%
HF25W-SPL-48	48V	0.5A	0.5%	150mV	84%

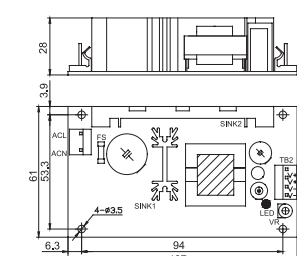
* 3~48VDC output all available.

35W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 107 × 61 × 28(mm)



- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty



AC input voltage range85~264VAC (120~370VDC)
Inrush currentcold start, 20A/115V, 40A/230V
Output voltage adjust range $\pm 10\%$
Output overload protection105~150%, hiccup mode, auto recovery
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P:3.0KVAC/1min;I/P-F/G:1.5KVAC/1min
O/P-F/G:0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet GB9254, EN55022 class B, EN61000
Connection2P/ 7.92mm, 4P/ 3.96mm pitch
Weight0.16kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF35W-SPL-5	5V	7.0A	0.5%	80mV	76%
HF35W-SPL-12	12V	2.9A	0.5%	120mV	81%
HF35W-SPL-24	24V	1.5A	0.5%	150mV	84%
HF35W-SPL-48	48V	0.7A	0.5%	150mV	83%

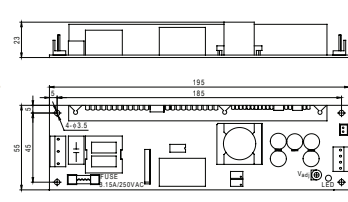
* 3~48VDC output all available.

50W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 195 × 55 × 23(mm)



- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty



AC input voltage range90~264VAC (127~370VDC)
Inrush currentcold start, 20A/115V, 40A/230V
Line regulation (full load) $\leq \pm 0.5\%$
Output voltage adjust range $\pm 10\%$
Output overload protection105~150%, hiccup mode, auto recovery
Output over voltage protection115~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 3.0KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet GB9254, EN55022 class B, EN61000
Connection3P/ 7.92mm, 4P/ 3.96mm pitch
Weight0.22kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF50W-SPL-5	5V	10.0A	0.5%	80mV	79%
HF50W-SPL-12	12V	4.2A	0.5%	120mV	83%
HF50W-SPL-24	24V	2.1A	0.5%	150mV	85%
HF50W-SPL-48	48V	1.1A	0.5%	150mV	87%

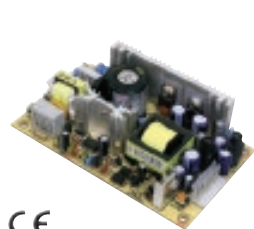
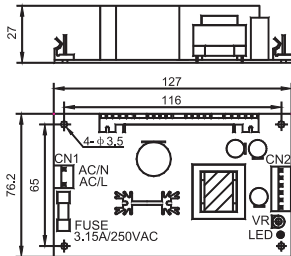
* 3~48VDC output all available.

45W 1~3 Output Open Frame Series

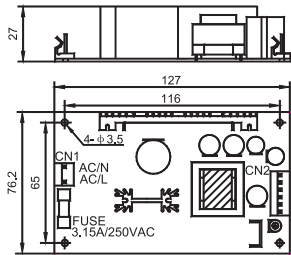
- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 127 x 76.2 x 27(mm)
- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty



CE



CE



AC input voltage range85~264VAC (120~370VDC)
Inrush currentcold start, 20A/115V, 40A/230V
Input leakage current.....< 1mA/ 230VAC
Voltage tolerance..... $V_i: \leq \pm 1\%$, $V_2, V_3: \leq \pm 10\%$
Output voltage adjust rangesingle output: $\pm 10\%$, multi-output: $V_i: \pm 5\%$
Output overload protection105~150%, hiccup mode, auto recovery
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P: 3.0KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet GB9254, EN55022 class B, EN61000
Connection2P/ 7.92mm, 6P/ 3.96mm pitch
Weight0.19kg/pcs (HF45W-SPL)

Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF45W-SPL-5	5V	8.0A	0.5%	80mV	70%
HF45W-SPL-12	12V	3.7A	0.5%	120mV	83%
HF45W-SPL-24	24V	1.9A	0.5%	150mV	85%
HF45W-SPL-48	48V	1.0A	0.5%	150mV	86%

* 3~48VDC output all available.

Dual Output

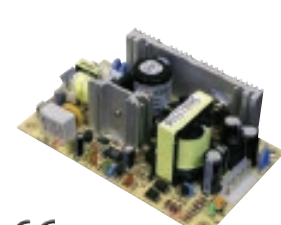
Model	DC Output		R&N	Efficiency
HF45W-DPL-A	5V	0.4~5.0A	80mV	79%
	12V	0.2~2.5A	120mV	
HF45W-DPL-B	5V	0.4~5.0A	80mV	77%
	24V	0.2~1.8A	150mV	

Triple Output

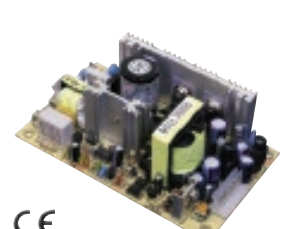
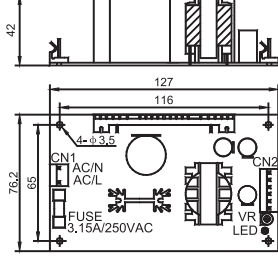
Model	DC Output		R&N	Efficiency
HF45W-TPL-B	5V	0.5~4.0A	80mV	75%
	+12V	0.3~1.5A	120mV	
HF45W-TPL-C	-12V	0.1~0.5A	120mV	75%
	5V	1.0~5.0A	80mV	
	+15V	0.2~1.0A	120mV	
	-15V	0.1~0.35A	120mV	

65W 1~3 Output Open Frame Series

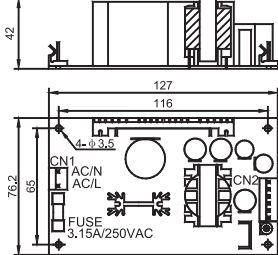
- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 127 x 76.2 x 42(mm)
- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty



CE



CE



AC input voltage range85~264VAC (120~370VDC)
Inrush currentcold start, 20A/115V, 40A/230V
Input leakage current.....< 1mA/ 230VAC
Voltage tolerance..... $V_i: \leq \pm 1\%$, $V_2, V_3: \leq \pm 10\%$
Output voltage adjust rangesingle output: $\pm 10\%$, multi-output: $V_i: \pm 5\%$
Output overload protection105~150%, hiccup mode, auto recovery
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P: 3.0KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet GB9254, EN55022 class B, EN61000
Connection2P/ 7.92mm, 6P/ 3.96mm pitch
Weight0.25kg/pcs (HF65W-SPL)

Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF65W-SPL-5	5V	10.0A	0.5%	80mV	76%
HF65W-SPL-12	12V	5.2A	0.5%	120mV	85%
HF65W-SPL-24	24V	2.7A	0.5%	150mV	86%
HF65W-SPL-48	48V	1.35A	0.5%	150mV	87%

* 3~48VDC output all available.

Dual Output

Model	DC Output		R&N	Efficiency
HF65W-DPL-A	5V	0.4~7.0A	80mV	82%
	12V	0.2~3.2A	120mV	
HF65W-DPL-B	5V	0.4~6.0A	80mV	83%
	24V	0.2~2.6A	150mV	

Triple Output

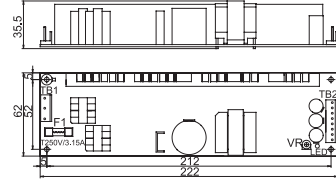
Model	DC Output		R&N	Efficiency
HF65W-TPL-B	5V	0.4~5.0A	80mV	81%
	+12V	0.2~2.5A	120mV	
HF65W-TPL-C	-12V	0.1~0.5A	120mV	81%
	5V	1.0~6.0A	80mV	
	+15V	0.3~1.6A	120mV	
	-15V	0.1~0.7A	120mV	

100W Open Frame Series - with PFC

- Universal AC input / full range
- Protections: overload/ over voltage/ short circuit
- PF>0.98@115VAC; >0.94@230VAC
- 5 years limited warranty
- 222 x 62 x 35.5(mm)



PFC ACTIVE CE



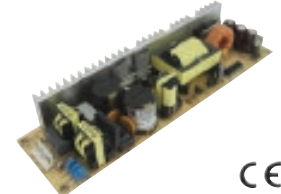
AC input voltage range85~264VAC (120~370VDC)
Input frequency.....47~63Hz
Inrush currentcold start, 20A/115V, 40A/230V
Input leakage current.....< 1mA/ 230VAC
Output voltage adjust range $\pm 10\%$
Output overload protection105~130%, current limiting, auto recovery
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P:3.0KVAC/1min;I/P-F/G:1.5KVAC/1min
O/P-F/G:0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+40°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet GB9254, EN55022 class B, EN61000
Cooling methodconvection
Connection3P/ 7.92mm, 8P/ 3.96mm pitch
Weight0.42kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-SPC-3.3	3.3V	20.0A	0.5%	100mV	71%
HF100W-SPC-5	5V	20.0A	0.5%	100mV	78%
HF100W-SPC-7.5	7.5V	13.5A	0.5%	100mV	81%
HF100W-SPC-12	12V	8.5A	0.5%	120mV	83%
HF100W-SPC-15	15V	6.7A	0.5%	120mV	84%
HF100W-SPC-24	24V	4.2A	0.5%	150mV	84%
HF100W-SPC-48	48V	2.1A	0.5%	150mV	86%

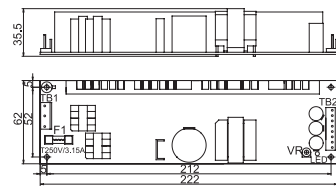
* 3~48VDC output all available.

100W Open Frame Series

- High reliability
- AC input range selected by switch
- Built-in EMI filter
- Free air cooling convection
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- 222 x 62 x 35.5(mm)



CE



AC input voltage range85~132/ 170~264VAC selected by switch
Input frequency.....40~63Hz
Inrush currentcold start, 20A/115V, 40A/230V
Input leakage current.....< 1mA/ 230VAC
Output voltage adjust range $\pm 10\%$
Output overload protection105~130%, shut off, re-power on to recover
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P:3.0KVAC/1min;I/P-F/G:1.5KVAC/1min
O/P-F/G:0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet GB9254, EN55022 class B, EN61000
Cooling methodconvection
Connection3P/ 7.92mm, 8P/ 3.96mm pitch
Weight0.41kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-SPF-5	5V	20.0A	0.5%	100mV	77%
HF100W-SPF-12	12V	8.5A	0.5%	120mV	81%
HF100W-SPF-15	15V	6.7A	0.5%	120mV	82%
HF100W-SPF-24	24V	4.2A	0.5%	150mV	84%
HF100W-SPF-48	48V	2.1A	0.5%	150mV	85%

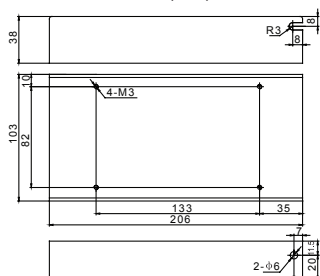
* 3~48VDC output all available.

150W U-Bracket Series

- High reliability
- AC input range selected by switch
- Built-in EMI filter
- Free air cooling convection
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- 206 x 103 x 38(mm)



CE



AC input voltage range85~132/ 170~264VAC selected by switch
Inrush currentcold start, 20A/115V, 40A/230V
Line regulation (full load) $\leq \pm 0.5\%$
Output voltage adjust range $\pm 10\%$
Output overload protection105~130%, shut off, re-power on to recover
Output over voltage protection115~150%, shut off, re-power on to recover
Withstand voltage.....I/P -O/P: 3.0KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet GB9254, EN55022 class B, EN61000
Connection3P, 4P/ 9.5mm pitch, terminal block

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-SUF-5	5V	30.0A	0.5%	100mV	79%
HF150W-SUF-12	12V	12.5A	0.5%	120mV	85%
HF150W-SUF-15	15V	10.0A	0.5%	120mV	85%
HF150W-SUF-24	24V	6.5A	0.5%	150mV	86%
HF150W-SUF-48	48V	3.1A	0.5%	150mV	86%

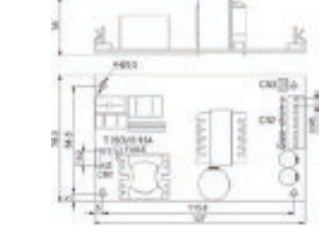
* 3~48VDC output all available.

200W Open Frame Series - with PFC

- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- High power density 9.78W/inch³
- High efficiency
- ZVS technology to reduce power dissipation
- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air convection for 150W and 200W with 20.5 CFM forced air
- 5 years limited warranty
- 127 x 76.2 x 36(mm)



PFC ACTIVE CE



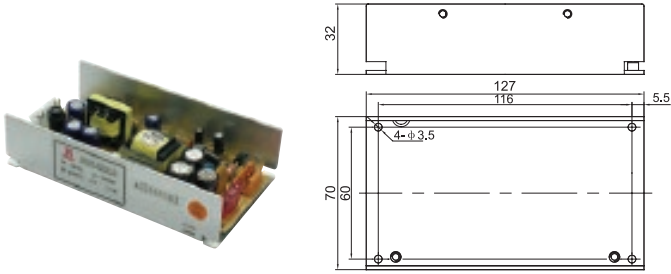
AC input voltage range85~264VAC (120~370VDC)
Inrush currentcold start, 20A/115V, 40A/230V
Output voltage adjust range $\pm 10\%$
Output overload protection105~150%, hiccup mode, auto recovery
Output over voltage protection115~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P:3.0KVAC/1min;I/P-F/G:1.5KVAC/1min
O/P-F/G:0.5KVAC/1min
Rise, Hold up time50ms, 20ms@full load (typical)
Operating temperature-20°C~+50°C
Safety standards.....meet GB4943, UL60950, EN60950
EMC standards.....meet GB9254, EN55022 class B, EN61000
Connection2P/ 7.92mm, 8P/ 3.96mm pitch
Weight0.38kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-SPC-5	5V	36.0A	0.5%	100mV	81%
HF200W-SPC-12	12V	16.6A	0.5%	120mV	85%
HF200W-SPC-24	24V	8.3A	0.5%	150mV	87%
HF200W-SPC-48	48V	4.2A	0.5%	150mV	87%

* 3~48VDC output all available.

50W~60W DC/DC for Vehicle LCD

- Wide DC input range
- High reliability, low cost
- 127 x 70 x 32(mm)
- Protections: overload/ short circuit
- 5 years limited warranty



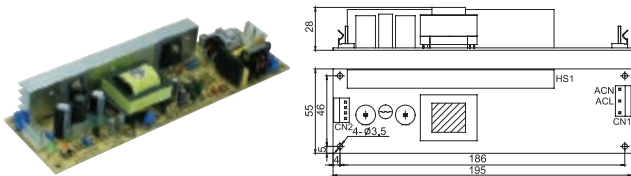
DC input voltage range.....24(9~36)VDC, 48(36~72)VDC
Line regulation..... $\pm 1\%$
Output voltage tolerance..... $\pm 3\%$
Output overload protection.....115~180% at min. Vin, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
Rise time.....50ms@full load (typical)
Operating temperature.....-20°C~+50°C
Safety standards.....design refer to LVD
Cooling method.....convection
Connection.....4P/ 3.96mm pitch
6P/ 3.96mm pitch

Model	DC Output		Load regul.	R&N	Efficiency
HF50W-SUD**-5	5V	10.0A	1.0%	80mV	73%
HF50W-SUD**-12	12V	3.7A	1.0%	120mV	83%
HF50W-SUD**-24	24V	2.1A	1.0%	150mV	84%
HF60W-SUD**-5	5V	12.0A	1.0%	80mV	72%
HF60W-SUD**-12	12V	5.0A	1.0%	120mV	81%

**means DC input voltage, such as 24, 48, etc.

60W Single Output Open Frame Series

- High reliability, low cost
- Miniature PCB structure
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- 195 x 55 x 28(mm)



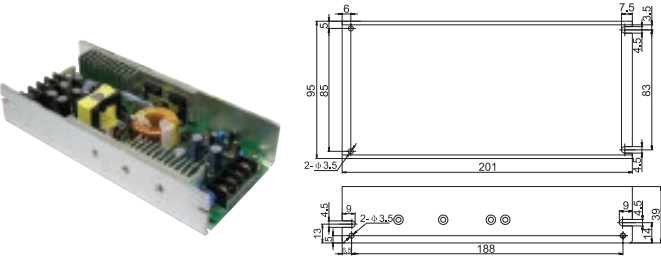
AC input voltage range.....170~264VAC (210~370VDC)
Inrush current.....cold start, 40A/230V
Line regulation (full load)..... $\leq \pm 0.5\%$
Output voltage adjust range..... $\pm 10\%$
Output overload protection.....105~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise time.....50ms@full load (typical)
Hold up time.....20ms@full load (typical)
Operating temperature.....-20°C~+50°C
Safety standards.....design meet GB4943, UL60950, EN60950
Connection.....3P/ 7.92mm, 4P/ 3.96mm pitch
Weight.....0.21kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF60W-SP-12	12V	5.0A	0.5%	120mV	81%
HF60W-SP-15	15V	4.0A	0.5%	120mV	82%
HF60W-SP-24	24V	2.5A	0.5%	150mV	83%
HF60W-SP-48	48V	1.3A	0.5%	150mV	86%

* 12~48VDC output all available.

100W DC/DC U-Bracket Series

- High reliability
- Input over voltage protection
- Input below voltage protection
- 201 x 95 x 39(mm)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty



DC input voltage range.....12(10~18)VDC, 24(18~36)VDC
Line regulation (full load)..... $\leq \pm 0.5\%$
Output voltage adjust range..... $\pm 10\%$
Output overload protection.....105~150%, hiccup mode, auto recovery
Output over voltage protection.....115~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Rise time.....50ms@full load (typical)
Operating temperature.....-20°C~+50°C
Safety standards.....design refer to LVD
Cooling method.....convection
Connection.....4P/ 9.5mm pitch
4P/ 9.5mm pitch, terminal block
Weight.....0.75kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-SUD**-5	5V	20.0A	1.0%	100mV	75%
HF100W-SUD**-12	12V	9.0A	0.5%	120mV	73%
HF100W-SUD**-24	24V	4.5A	0.5%	150mV	76%

**means DC input voltage, such as 12, 24, etc.



10W DC/DC Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F601 100 × 58 × 31(mm)

DC input voltage.....12VDC, 24VDC, 48VDC, 90VDC, 110VDC
Line regulation (full load)..... $\leq \pm 0.5\%$
Output voltage adjust range.....single output: $\pm 10\%$
multi-output: $V_i: \pm 5\%$
Output overload protection.....105~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Isolation resistance.....> 100M Ω @500VDC
Operating temperature.....-20°C~+50°C
Safety standards.....design refer to GB4943, UL60950, EN60950
Cooling method.....convection

Model	DC Output		R&N	Voltage Tol.
HF10W-SD**-5	5V	2.0A	80mV	$\pm 1\%$
HF10W-SD**-12	12V	1.0A	120mV	$\pm 1\%$
HF10W-SD**-24	24V	0.5A	150mV	$\pm 1\%$
HF10W-DD**-A	5V	0.2~1.8A	80mV	$\pm 1\%$
	12V	0.1~0.5A	120mV	$\pm 3\%$
HF10W-TD**-B	5V	0.2~1.8A	80mV	$\pm 1\%$
	24V	0.05~0.3A	150mV	$\pm 3\%$

**means DC input voltage, such as 12, 24, 48, 90, 110, etc.

20W DC/DC Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F602 111 × 78 × 36(mm)

DC input voltage.....12VDC, 24VDC, 48VDC, 110VDC
Line regulation (full load)..... $\leq \pm 0.5\%$
Output voltage adjust range.....single output: $\pm 10\%$
multi-output: $V_i: \pm 5\%$
Output overload protection.....105~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Isolation resistance.....> 100M Ω @500VDC
Operating temperature.....-20°C~+50°C
Safety standards.....design refer to GB4943, UL60950, EN60950
Cooling method.....convection

Model	DC Output		R&N	Voltage Tol.
HF20W-SD**-5	5V	4.0A	80mV	$\pm 1\%$
HF20W-SD**-12	12V	2.0A	120mV	$\pm 1\%$
HF20W-SD**-24	24V	1.0A	150mV	$\pm 1\%$
HF20W-DD**-A	5V	0.4~2.0A	80mV	$\pm 1\%$
	12V	0.0~1.0A	120mV	$\pm 3\%$
HF20W-TD**-A	5V	0.4~2.0A	80mV	$\pm 1\%$
	+12V	0.0~0.5A	120mV	$\pm 3\%$
	-12V	0.0~0.35A	120mV	$\pm 3\%$

**means DC input voltage, such as 12, 24, 48, 90, 110, etc.

30W DC/DC Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

DC input voltage.....12VDC, 24VDC, 48VDC, 110VDC
Line regulation (full load)..... $\leq \pm 0.5\%$
Output voltage adjust range.....single output: $\pm 10\%$
multi-output: $V_i: \pm 5\%$
Output overload protection.....105~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Isolation resistance.....> 100M Ω @500VDC
Operating temperature.....-20°C~+50°C
Safety standards.....design refer to GB4943, UL60950, EN60950
Cooling method.....convection

Model	DC Output		R&N	Voltage Tol.
HF30W-SD**-12	12V	2.5A	120mV	$\pm 1\%$
HF30W-SD**-24	24V	1.3A	150mV	$\pm 1\%$
HF30W-DD**-A	5V	0.5~3.2A	80mV	$\pm 1\%$
	12V	0.0~2.0A	120mV	$\pm 3\%$
HF30W-TD**-B	15V	0.2~1.0A	120mV	$\pm 1\%$
	-15V	0.0~1.0A	120mV	$\pm 3\%$
HF30W-TD**-A	5V	0.5~3.5A	80mV	$\pm 1\%$
	+12V	0.1~1.2A	120mV	$\pm 3\%$
	-12V	0.1~0.8A	120mV	$\pm 10\%$

**means DC input voltage, such as 12, 24, 48, 110, etc.

40W DC/DC Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

DC input voltage.....24VDC, 48VDC, 110VDC
Line regulation (full load)..... $\leq \pm 0.5\%$
Output voltage adjust range.....single output: $\pm 10\%$
multi-output: $V_i: \pm 5\%$
Output overload protection.....105~150%, hiccup mode, auto recovery
Withstand voltage.....I/P -O/P: 1.5KVAC/1min
I/P -F/G: 1.5KVAC/1min
O/P-F/G: 0.5KVAC/1min
Isolation resistance.....> 100M Ω @500VDC
Operating temperature.....-20°C~+50°C
Safety standards.....design refer to GB4943, UL60950, EN60950
Cooling method.....convection

Model	DC Output		R&N	Voltage Tol.
HF40W-SD**-5	5V	8.0A	80mV	$\pm 1\%$
HF40W-SD**-12	12V	3.3A	120mV	$\pm 1\%$
HF40W-SD**-24	24V	1.6A	150mV	$\pm 1\%$
HF40W-TD**-A	5V	0.4~2.0A	80mV	$\pm 1\%$
	+12V	0.0~1.5A	120mV	$\pm 3\%$
	-12V	0.0~1.0A	120mV	$\pm 10\%$

**means DC input voltage, such as 24, 48, 110, etc.

