



威海電子股份有限公司

WEIHAI POWER ELECTRONICS CO.,LTD.



Switching Mode Power Supply Manufacturer

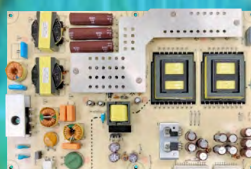
AC/DC Adapter

Open Frame Power

3" x 5" Power

Smart Charger

O.D.M.





Company Profile

WEIHAI Power Electronics Co., Ltd. is the provider of switching power supply over the world. WEIHAI has major research and development group and sales office in Taiwan, as well as two manufacturing facilities in Shanghai and Guangdong China.

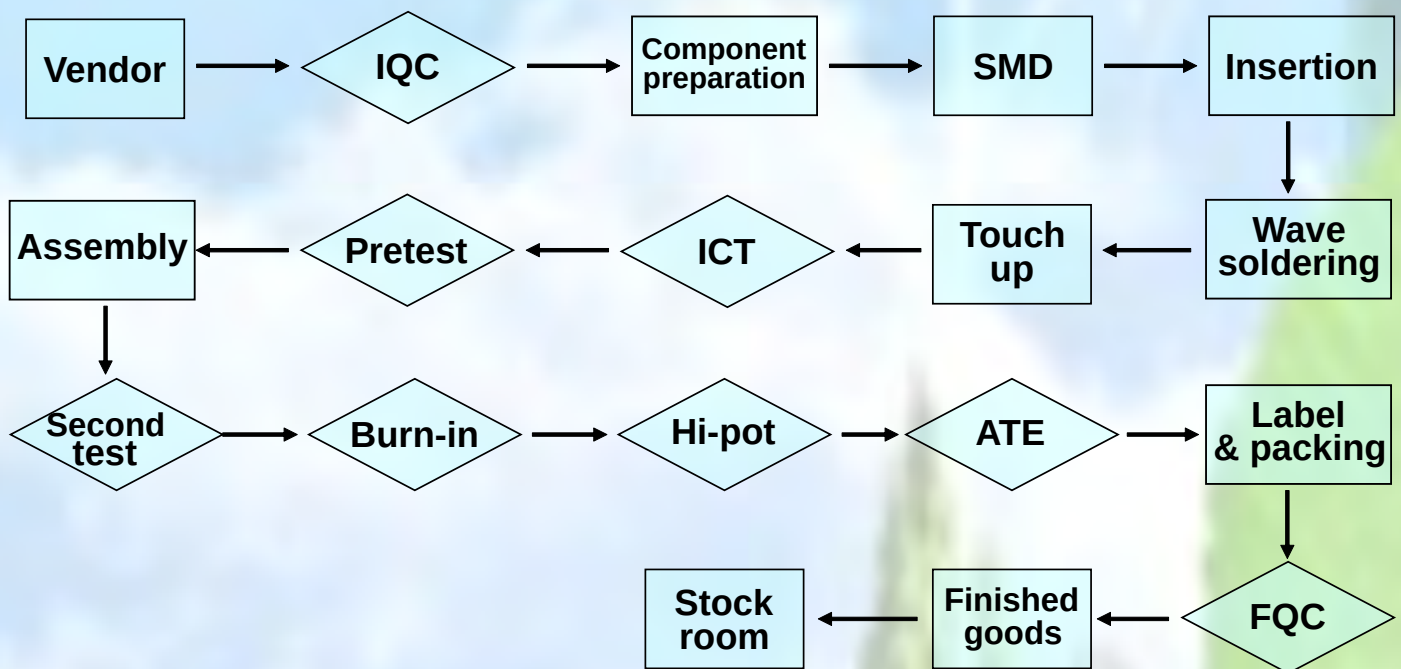
WEIHAI provides standard adapter, LCD TV power supply, open frame power supply, LED power supply, smart charger and so on. We also provide ODM service to our clients.

WEIHAI products meet not only safety approved “UL, TUV, C-Tick, EK-mark, PSE, PSB, FCC, CE, CB, BSMI” but also environmental protection policy “CEC, Energy Star, EuP, MEPS”.

WEIHAI always insists to provide excellent quality, immediate solution and satisfied service to reach clients requirements.

WEIHAI products control flow is as attachment for your reference.

Power supply production control flow





Content list

1. AC/DC adapter	P03~P06
• AMB-036 series 25W~48W	
• HAS060 series 25W~48W	
• AMS-120 series 95W~120W	
• AMP-180 series 120W~180W	
2. Open frame power	P07~P12
• HSM300B series 300W	
• HSM180S series 137.5W~178W	
• HTM350PH-F72 349W	
• HTM250FH-T92 277W	
• HTM180FH-T82 164W	
• EP1-050 series 25W~50W & HOS072 series 60W~72W	
3. 3" x 5" power	P13~P16
• MP3-200 series 150W~200W	
• MP5-250 series 180W~250W	
• MP7-380 series 240W~380W	
• MP9-400 series 248W~392W	
4. Smart charger	P17
• ASB150PN series 150W	
5. Other power supply	P18~P21
• RS-350 series 250W~350W	
• HPM3502412-X5 & HOD4002412-U1	
• MP6-600 series & MPD-300-9V	
• WDS150 series 120W~180W	
6. Car Charger	P22

AMB-036 series 25W~48W

SINGLE OUTPUT



UNIVERSAL INPUT

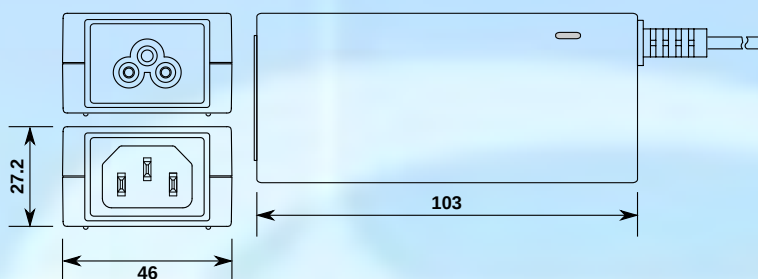
Power Saving Standard Mode High Performance

DIMENSION

- L103x W46x H27.2mm(Max.)

AC inlet : IEC-320-C14 & C6 Type

Unit : mm
Tolerance : ±0.2mm



FEATURE

- 90 to 264 VAC universal input
- High efficiency 87% typical
- High reliability
- Low ripple & noise
- Short circuit protection
- Limited power source

ENVIRONMENTAL

- Operating temperature: 0°C ~ +40°C
- Operating humidity: 20% ~ 85%
- Storage temperature: - 40°C~ +70°C
- Storage humidity: 10% ~ 95%
- Hi-pot 1,500VAC 60sec.(P. to S.) class I
- MTBF > 50,000hrs at 25°C

Output Voltage/Current Rating Chart

Model Name	Output Wattage	Output Voltage	Output Current
AMB-025-25	25W	5V	5A
AMB-036-12	36W	12V	3A
AMB-042-12	42W	12V	3.5A
AMB-042-19	42W	19V	2.21A
AMB-048-24	48W	24V	2A



Approval standard : UL62368, EN62368

Safety application : 40°C Ambient temperature

★ Meets the requirements of these agencies



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HAS065 series 35W~66W

SINGLE OUTPUT



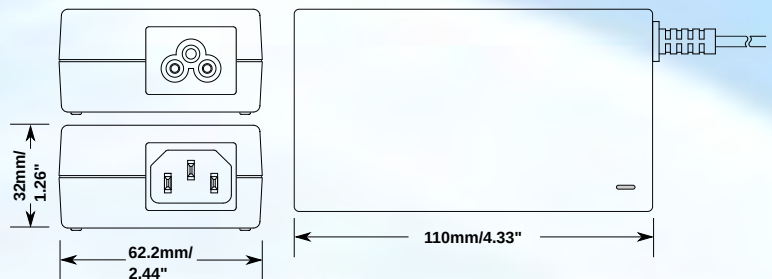
UNIVERSAL INPUT

Power Saving Standard Mode High Performance

DIMENSION

- L110x W62.2x H32mm(Max.)

AC inlet : IEC-320-C14 & C6 Type

Unit : mm
Tolerance : ±0.2mm

FEATURE

- 90 to 264 VAC universal input
- High efficiency 80% typical
- High reliability
- Low ripple & noise
- Short circuit protection
- Over voltage protection
- Limited power source

ENVIRONMENTAL

- Operating temperature: 0°C ~ +40°C
- Operating humidity: 20% ~ 85%
- Storage temperature: - 40°C ~ +70°C
- Storage humidity: 10% ~ 95%
- Hi-pot 1,500VAC 60sec.(P. to S.) class I
- MTBF > 50,000hrs at 25°C

Output Voltage/Current Rating Chart

Model Name	Output Wattage	Output Voltage	Output Current
HAS035053-XX	35.0W	5.0V	7.0A
HAS050123-XX	50.0W	12.0V	4.16A
HAS060123-XX	60.0W	12.0V	5.0A
HAS060123-TP	56.25W	15.0V	3.75A
HAS060153-XX	56.25W	15.0V	3.75A
HAS065153-XX	64.8W	15.0V	4.32A
HAS065193-XX	64.98W	19.0V	3.42A
HAS060243-XX	60.0W	24.0V	2.5A
HAS066243-XX	66.0W	24.0V	2.75A
HAS060303-XX	60.0W	30.0V	2.0A
HAS060483-XX	60.0W	48.0V	1.25A
HAS065563-XX	65.0W	56.0V	1.16A



Approval standard : UL62368, EN62368

Safety application : 40°C Ambient temperature

★ Meets the requirements of these agencies



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AMS-120 series 95W~120W

SINGLE OUTPUT



UNIVERSAL INPUT

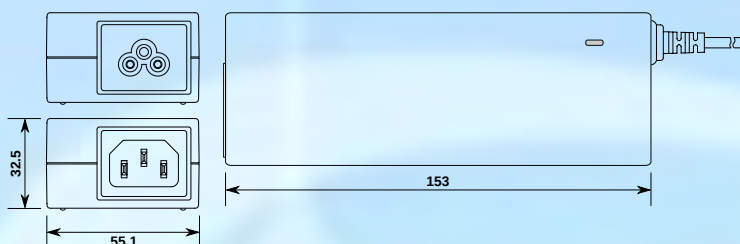
Power Saving Standard Mode High Performance

DIMENSION

- L153x W55.1x H32.5mm(Max.)

AC inlet : IEC-320-C14 & C6 Type

Unit : mm
Tolerance : ±0.2mm



FEATURE

- 90 to 264 VAC universal input
- Low ripple & noise
- Short circuit protection
- Over voltage protection
- Power saving $\leq 0.21W$ at 110VAC/230VAC
- Power factor correction > 0.95 at full load

ENVIRONMENTAL

- Operating temperature: $0^{\circ}C \sim +40^{\circ}C$
- Operating humidity: 20% ~ 85%
- Storage temperature: $-40^{\circ}C \sim +70^{\circ}C$
- Storage humidity: 10% ~ 95%

GENERAL SPECIFICATION

- Efficiency 88% type at full load
- Hold- up time 8.3ms at full load, (100V)
- Inrush current 80A/240 VAC
- Withstand voltage 1500 VAC, input to output
- MTBF 50,000 hours
- Burn-in 100% for all shipped units
- EMI requirements Meets conduction limits of
 - a) FCC class B
 - b) CISPR class B
- Safety requirements Approval
 - a) UL 62368
 - b) EN 62368

Output Voltage/Current Rating Chart

Model Name	Output Wattage	Output Voltage	Output Current
AMS-096-12	96W	12V	8A
AMS-108-12	108W	12V	9A
AMS-120-12	120W	12V	10A
AMS-105-15	105W	15V	7A
AMS-120-15	120W	15V	8A
AMS-095-19	95W	19V	5A
AMS-120-19	120W	19V	6.3A
AMS-100-24	100W	24V	4.2A
AMS-120-24	120W	24V	5A
AMS-120-30	120W	30V	4A



Safety application : $40^{\circ}C$ Ambient temperature

★ Meets the requirements of these agencies



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AMP-180 series 120W~180W

SINGLE OUTPUT



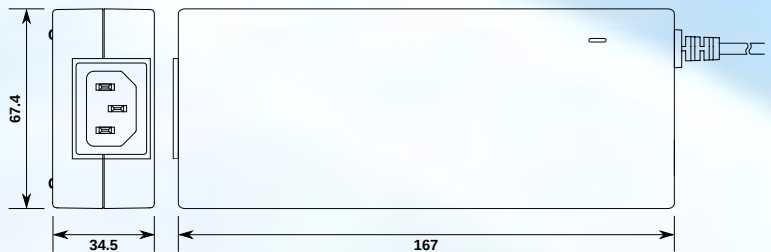
UNIVERSAL INPUT

Power Saving Standard Mode High Performance

DIMENSION

- L165x W67.4x H34.5mm(Max.)

AC inlet : IEC-320-C14 Type

Unit : mm
Tolerance : ±0.2mm

FEATURE

- 90 to 264 VAC universal input
- Low ripple & noise
- Short circuit protection
- Over voltage protection
- Power saving $\leq 0.21W$ at 110VAC/230VAC
- Power factor correction > 0.95 at full load

ENVIRONMENTAL

- Operating temperature: $0^{\circ}C \sim +40^{\circ}C$
- Operating humidity: 20% ~ 85%
- Storage temperature: $-40^{\circ}C \sim +70^{\circ}C$
- Storage humidity: 10% ~ 95%

GENERAL SPECIFICATION

- Efficiency 88% type at full load
- Hold- up time 8.3ms at full load, (100V)
- Inrush current 80A/240 VAC
- Withstand voltage 1800 VAC, input to Output
- MTBF 50,000 hours
- Burn-in 100% for all shipped units
- EMI requirements Meets conduction limits of
a) FCC Class B
b) CISPR Class B
- Safety requirements Approval
a) UL 62368
b) EN 62368

Output Voltage/Current Rating Chart

Model Name	Output Wattage	Output Voltage	Output Current
AMP-120-12	120W	12V	10A
AMP-150-12	150W	12V	12.5A
AMP-150-20	150W	20V	7.5A
AMP-152-19	152W	19V	8A
AMP-160-20	160W	20V	8A
AMP-160-24	160W	24V	6.7A
AMP-180-24	180W	24V	7.5A

Safety application : $40^{\circ}C$ Ambient temperature

★ Meets the requirements of these agencies



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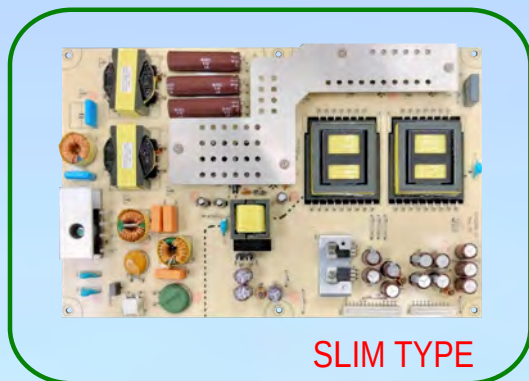
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Open Frame Power Supply

HSM300B series 300W

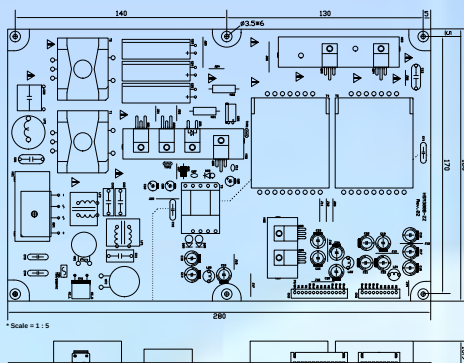
For Panel TV use

MULTIPLE OUTPUT



MECHANICAL DRAWING

- Dimension : L 280x W180 x H15.9mm



CONNECTOR

- AC input : CN1

Connector type : M3-I39606RS

Pin No.	Symbol	Description
1	AC_L	AC Input Voltage, Line
2	N/C	N/C
3	AC_N	AC Input Voltage, Neutral

- DC output : CN2

Connector type : M10-I25002

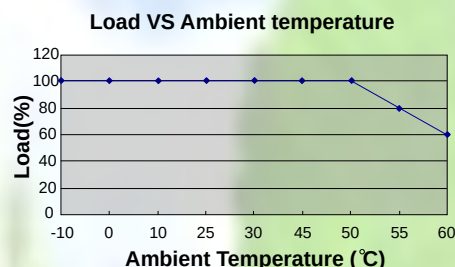
Pin No.	Symbol	Description
1	GND	Ground
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	+24V	DC Output Voltage
7	+24V	DC Output Voltage
8	+24V	DC Output Voltage
9	+24V	DC Output Voltage
10	+24V	DC Output Voltage

- DC output : CN3

Connector type : M14-I25002

Pin No.	Symbol	Description
1	PS-ON	PS On-Off
2	+5Vsb	DC Output Voltage
3	+5Vsb	DC Output Voltage
4	+5Vsb	DC Output Voltage
5	GND	Ground
6	GND	Ground
7	+12V	DC Output Voltage
8	+12V	DC Output Voltage
9	+12V	DC Output Voltage
10	+12V	DC Output Voltage
11	GND	Ground
12	GND	Ground
13	GND	Ground
14	GND	Ground

DE-RATING CURVE



SPECIFICATION

MODEL NAME		HSM300B-M1		
Input	Voltage	90VAC ~ 264VAC		
	Frequency(Hz)	47Hz ~ 63Hz		
	Inrush current	< 4A(110VAC), < 2A(230VAC)		
Output	Power factor correction	> 0.9 at full load		
	Power saving(Remote off)	< 0.2W at 230Vac		
	Voltage	+5Vsb	+12V	+24V
	Current(Mode-1)	2A	6A	9A
	Current(Mode-2)	2A	4A	10A
	Voltage tolerance	±5%		
	Ripple & Noise	100mV	240mV	480mV
	Max. output power	298W		
	Efficiency	> 86%		
	Hold up time	≥ 8ms @115Vac		
	Rise time	> 1ms < 50ms		
Protection	Over current	Auto-recovery mode		
	Over voltage	Latch mode		
	Over temperature	Latch mode		
Environment	Operating temperature	-10°C ~ +50°C		
	Storage temperature	-40°C ~ +70°C		
	Humidity	10% ~ 95%		
	MTBF	>50,000hrs @ 25°C(MIL-HDBK-217F)		
EMI requirements		EN55022 class B, EN61000-4-2,4,5		
Safety meet requirements		UL62368-1, EN62368-1		
Dimension(L x W x H mm)		280 x 180 x 15.9 mm(max.)		
Power weight(N.W.)		572g ±2g		

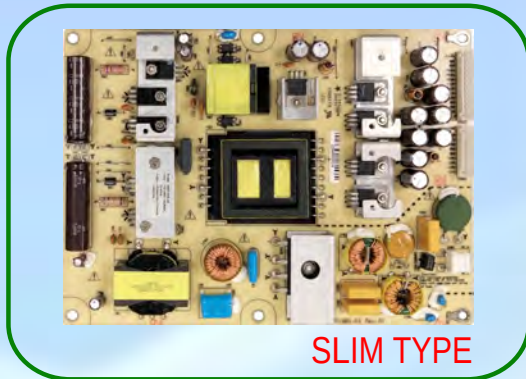


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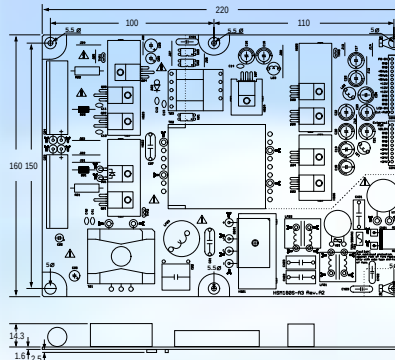
HSM180S series 137.5W~178W For Panel TV use

MULTIPLE OUTPUT



MECHANICAL DRAWING

- Dimension : L 220x W160 x H14.3mm



CONNECTOR

- AC input : CN01
Connector type : M3-I39606RS

Pin No.	Symbol	Description
1	AC_L	AC Input Voltage, Line
2	N/C	N/C
3	AC_N	AC Input Voltage, Neutral

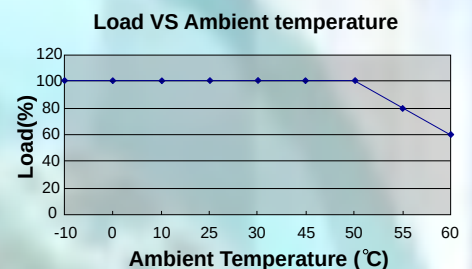
- DC output : CON02
Connector type : M10-I25002

Pin No.	Symbol	Description
1	+24V	DC Output Voltage
2	+24V	DC Output Voltage
3	+24V	DC Output Voltage
4	+24V	DC Output Voltage
5	GND	Ground
6	GND	Ground
7	GND	Ground
8	GND	Ground
9	VBL_ON	N/C
10	External PWM	N/C

- DC output : CON03
Connector type : M14-I25002

Pin No.	Symbol	Description
1	External PWM	N/C
2	LCD-ON	N/C
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	+12V	DC Output Voltage
7	+12V	DC Output Voltage
8	+12V	DC Output Voltage
9	+5Vsb	DC Output Voltage
10	+5Vsb	DC Output Voltage
11	+5Vsb	DC Output Voltage
12	GND	Ground
13	GND	Ground
14	PS-ON	PS On-Off

DE-RATING CURVE



SPECIFICATION

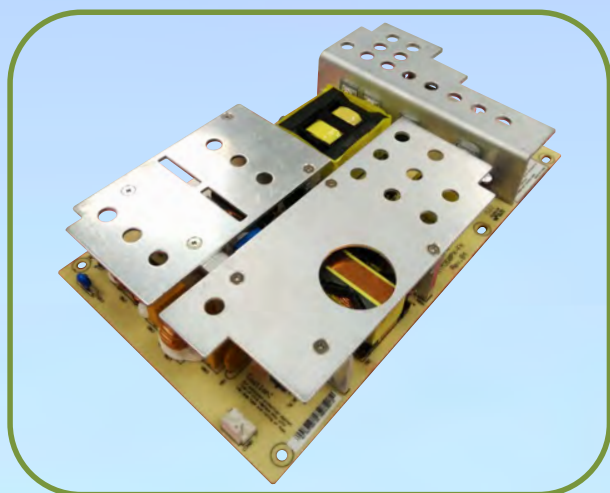
MODEL NAME		HSM180S-A3			HSM180S-A5			
Input	Voltage	90VAC ~ 264VAC						
	Frequency(Hz)	47Hz ~ 63Hz						
	Inrush current	< 3A(110VAC), < 1.5A(230VAC)						
Output	Power factor correction	> 0.9 at full load						
	Power saving(Remote off)	< 0.3W						
	Voltage	+5Vsb	+12V	+24V	+5Vsb	+12V	+24V	
	Current(Mode-1)	3.5A	3A	3.5A	2A	4A	5A	
	Current(Mode-2)	3.5A	4A	3A	2A	6A	4A	
	Voltage tolerance	±5%						
	Ripple & Noise	100mV	240mV	480mV	100mV	300mV	600mV	
	Max. output power	137.5W			178W			
	Efficiency	> 80%						
	Hold up time	≥ 10ms @115vac						
	Rise time	> 1ms < 20ms						
Protection	Over current	Auto-recovery mode						
	Over voltage	Latch mode						
	Over temperature	Latch mode						
Environment	Operating temperature	-10℃ ~ +50℃						
	Storage temperature	-40℃ ~ +70℃						
	Humidity	10% ~ 90%						
	MTBF	>50,000hrs @ 25℃(MIL-HDBK-217F)						
EMI requirements		EN55022 class B, EN61000-4-2,4,5						
Safety meet requirements		UL62368-1, EN62368-1						
Dimension(L x W x H mm)		220 x 160 x 14.3 mm(max.)						
Power weight(N.W.)		415g ±2g						



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MULTIPLE OUTPUT



UNIVERSAL INPUT

FEATURE

- 90 to 264 VAC universal input
- Built-in EMI filter
- 100% burn-in
- Input surge current protection
- Over voltage protection
- Over current protection
- Temperatures protection
- Open PCB construction
- PS-ON control
- Power factor correction > 0.9 at full load
- POWER Saving < 0.15W at 230VAC

ENVIRONMENTAL

- Operating temperature: 0°C ~ +50°C
- Operating humidity: 20% ~ 85%
- Storage temperature: - 40°C ~ +70°C
- Storage humidity: 10% ~ 95%

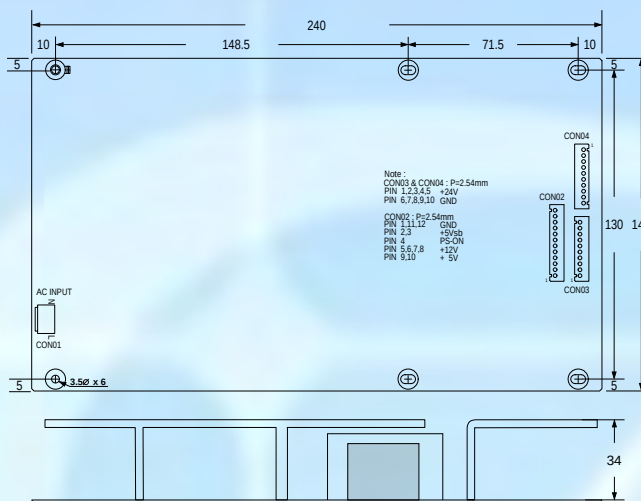
Output Voltage/Current Rating Chart

Model Name	Output	V norm.	I min.	I max.		Tolerance	Output Power Max.
				Mode 1	Mode 2		
HTM350PH-F72	#1	24V	0A	11A	12A	±5%	349W
	#2	12V	0A	5A	3A	±5%	
	#3	5V	0A	4A		±5%	
	#4	+5Vsb	0A	1A		±5%	

Power Saving Standard Mode High Performance

DIMENSION

- L240x W140x H34mm(Max.)



GENERAL SPECIFICATION

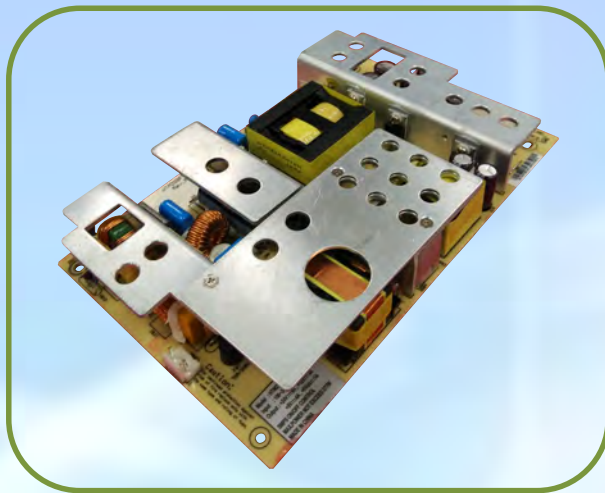
- Efficiency **86% type at full load**
- Hold- up time **8ms at full load, (115V)**
- Inrush current **80A/230 VAC**
- Withstand voltage **3000 VAC, input to output**
- MTBF **50,000 hours**
- Burn-in **100% for all shipped units**
- EMI requirements **Meets conduction limits of**
a) FCC class B
b) CISPR class B
- Safety requirements **Meets**
a) UL 62368
b) EN 62368



HTM250FH-T92 277W

For LCD TV use

MULTIPLE OUTPUT



UNIVERSAL INPUT

FEATURE

- 90 to 264 VAC universal input
- Built-in EMI filter
- 100% burn-in
- Input surge current protection
- Over voltage protection
- Over current protection
- Open PCB construction
- PS-ON control
- Power factor correction > 0.9 at full load
- POWER Saving < 0.15W at 230VAC

ENVIRONMENTAL

- Operating temperature: -20°C ~ +50°C
- Operating humidity: 20% ~ 85%
- Storage temperature: - 40°C~ +70°C
- Storage humidity: 10% ~ 95%

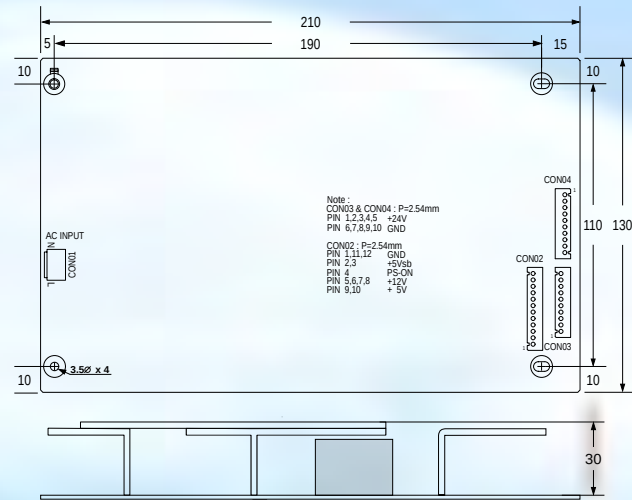
Output Voltage/Current Rating Chart

Model Name	Output	V norm.	I min.	I max.		Tolerance	Output Power Max.
				Mode 1	Mode 2		
HTM250FH-T92	#1	24V	0A	8A	9A	±5%	277W
	#2	12V	0A	5A	3A	±5%	
	#3	5V	0A	4A		±5%	
	#4	+5Vsb	0A	1A		±5%	

Power Saving Standard Mode High Performance

DIMENSION

- L210x W130x H30mm(Max.)



GENERAL SPECIFICATION

- Efficiency 86% type at full load
- Hold- up time 8ms at full load, (115V)
- Inrush current 80A/230 VAC
- Withstand voltage 3000 VAC, input to output
- MTBF 50,000 hours
- Burn-in 100% for all shipped units
- EMI requirements Meets conduction limits of
a) FCC class B
b) CISPR class B
- Safety requirements Meets
a) UL 62368
b) EN 62368



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EP1-050 SERIES



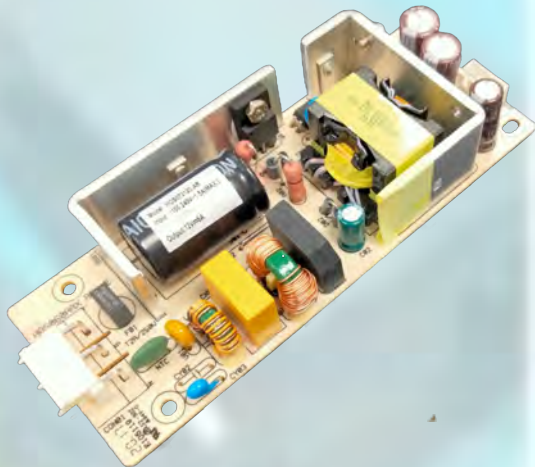
SPECIFICATION

- Dimension, L103 x W52 x H28mm
- Input voltage, 90VAC ~ 264VAC
- Frequency, 47Hz ~ 63Hz
- Efficiency, >86%
- Over current protection, Auto-recovery mode
- Over voltage protection, Auto-recovery mode
- Short circuit protection, Auto-recovery mode
- Operating temperature, -20 °C ~ +70 °C
- Storage temperature, -25 °C ~ +85 °C
- MTBF, >80,000hrs @ 25 °C(MIL-HDBK-217F)
- EMI requirements, EN55022 class B, EN61000-4-2,4,5
- Safety meet requirements, UL62368-1, EN62368-1

Output Voltage/Current Rating Chart

Model Name	Output Vnorm.	I min.	I max.	Tolerance	Output Power
EP1-025-5V	+5V	0A	5A	±5%	25W
EP1-036-12V	+12V	0A	3A	±5%	36W
EP1-040-24V	+24V	0A	1.66A	±5%	40W
EP1-048-32V	+32V	0A	1.5A	±5%	48W
EP1-050-48V	+48V	0A	1.05A	±5%	50W

HOS072 SERIES



SPECIFICATION

- Dimension, L130 x W50 x H25mm
- Input voltage, 90VAC ~ 264VAC
- Frequency, 47Hz ~ 63Hz
- Efficiency, >84%
- Over current protection, Auto-recovery mode
- Over voltage protection, Auto-recovery mode
- Short circuit protection, Auto-recovery mode
- Operating temperature, 0 °C ~ +50 °C
- Storage temperature, -40 °C ~ +70 °C
- MTBF, >50,000hrs @ 25 °C(MIL-HDBK-217F)
- EMI requirements, EN55022 class B, EN61000-4-2,4,5
- Safety meet requirements, UL62368, EN62368

Output Voltage/Current Rating Chart

Model Name	Output V norm.	I min.	I max.	Tolerance	Output Power
HOS060120-XX	12V	0A	5A	±5%	60W
HOS060240-XX	24V	0A	2.5A	±5%	
HOS072120-XX	12V	0A	6A	±5%	72W



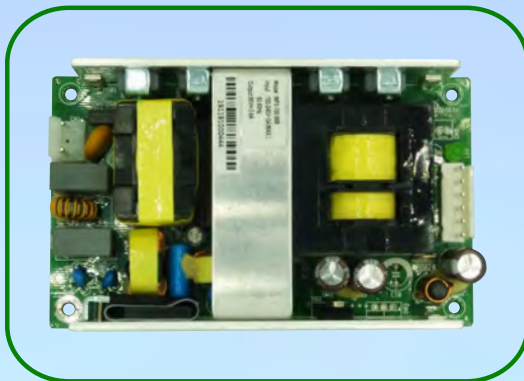
威海電子股份有限公司
WEIHAI POWER ELECTRONICS CO.,LTD.

6F. -6, No.700, Jhongjheng Rd., Jhonghe Dist.,
New Taipei City 235, Taiwan (R.O.C.)
TEL: 886-2-82273718 FAX: 886-2-82273719
E-MAIL: sales@wpe.com.tw

3" x 5" Power Supply

MP3-200 series 150W~200W

SINGLE OUTPUT



FEATURE

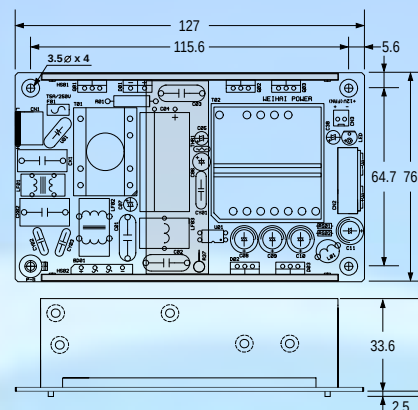
- Universal input voltage(Full range)
- Low ripple & noise
- Over current protection
- Over voltage protection
- Over temperature protection
- High efficiency
- High reliability
- Power factor correction ≥ 0.95
- 100% burn-in
- 2 years product warranty

SPECIFICATION

Model Name		MP3-200-12z	MP3-200-24z	MP3-200-24z	MP3-200-54z	MP3-200-56z
Input	Voltage	90VAC~264VAC				
	Frequency(Hz)	47Hz~63Hz				
	Inrush current	<80A(230VAC)				
	Power factor correction	PF ≥ 0.95 at full load				
Output	Voltage	12V	24V	30V	54V	56V
	Current (16.5 CFM fan)	12.5A	8.3A	6.7A	3.6A	3.6A
	Voltage tolerance	$\pm 5\%$				
	Ripple & Noise	120mV	240mV	300mV	540mV	560mV
	Max. output power (Forced air)	150W	200W	201W	195W	201W
	Efficiency (typ.)	>86%	>88%	>88%	>90%	>90%
	Hold up time	$\geq 16.7\text{ms}$ @115VAC				
	Setup, rise time	<1000ms, 20ms				
Protection	Over current	Auto recovery mode				
	Over voltage	Latch mode				
	Over temperature	Latch mode				
Environment	Operating temperature	$-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$				
	Storage temperature	$-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$				
	Humidity	10% ~ 90%				
	MTBF	>100,000hrs @25°C (MIL-HDBK-217F)				
EMI requirements		EN 55022 class B, EN61000-4-2,4,5				
Safety meet requirements		UL 62368, EN 62368				
Dimension (L x W x H mm)		127 x 76 x 36.1 mm (max.)				

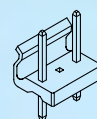
MECHANICAL DRAWING

Dimension : L 127x W76 x H36.1mm

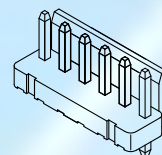


CONNECTOR

CN1



CN2



CN1 Input connector

Weli Sheng M3-I39601S or equivalent

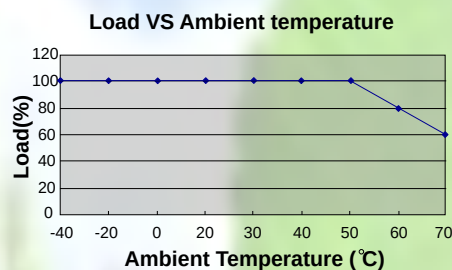
Pin	AC Input voltage
L&N	90-264VAC

CN2 Output connector

Weli Sheng M6-I39606 or equivalent

Pin	DC Output voltage
1	Common
2	Common
3	Common
4	Vo
5	Vo
6	Vo

DE-RATING CURVE



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MP5-250 series 180W~250W

SINGLE OUTPUT

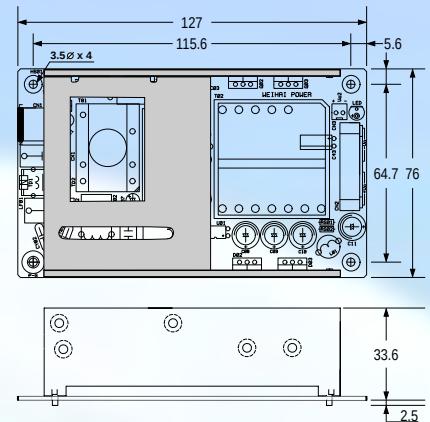


FEATURE

- Universal input voltage(Full range)
- Low ripple & noise
- Over current protection
- Over voltage protection
- Over temperature protection
- High efficiency
- High reliability
- Power factor correction ≥ 0.95
- 100% burn-in
- 2 years product warranty

MECHANICAL DRAWING

Dimension : L 127x W76 x H36.1mm

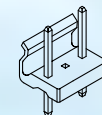


SPECIFICATION

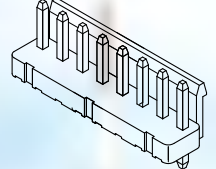
Model Name		MP5-250-12z	MP5-250-24z	MP5-250-54z	MP5-250-56z
Input	Voltage	90VAC~264VAC			
	Frequency(Hz)	47Hz~63Hz			
	Inrush current	<80A(230VAC)			
	Power factor correction	PF ≥ 0.95 at full load			
Output	Voltage	12V	24V	54V	56V
	Current (16.5 CFM fan)	15A	10A	4.62A	3.5A
	Voltage tolerance	$\pm 5\%$			
	Ripple & Noise	120mV	240mV	540mV	560mV
	Max. output power (Forced air)	180W	240W	249.5W	252W
	Efficiency (typ.)	>86%	>88%	>90%	>90%
	Hold up time	$\geq 16.7\text{ms}$ @115VAC			
	Setup, rise time	<1000ms, 20ms			
Protection	Over current	Auto recovery mode			
	Over voltage	Latch mode			
	Over temperature	Latch mode			
Environment	Operating temperature	$-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$			
	Storage temperature	$-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$			
	Humidity	10% ~ 90%			
	MTBF	>100,000hrs @25 $^{\circ}\text{C}$ (MIL-HDBK-217F)			
EMI requirements		EN 55022 class B, EN61000-4-2,4,5			
Safety meet requirements		UL 62368, EN 62368			
Dimension (L x W x H mm)		127 x 76 x 36.1 mm (max.)			

CONNECTOR

CN1



CN2



CN1 Input connector

Weli Sheng M3-I39601S or equivalent

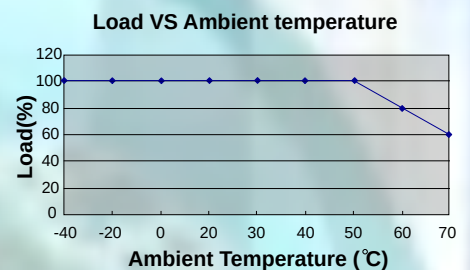
Pin	AC Input voltage
L&N	90-264VAC

CN2 Output connector

Weli Sheng M8-I39606 or equivalent

Pin	DC Output voltage
1	Common
2	Common
3	Common
4	Common
5	Vo
6	Vo
7	Vo
8	Vo

DE-RATING CURVE



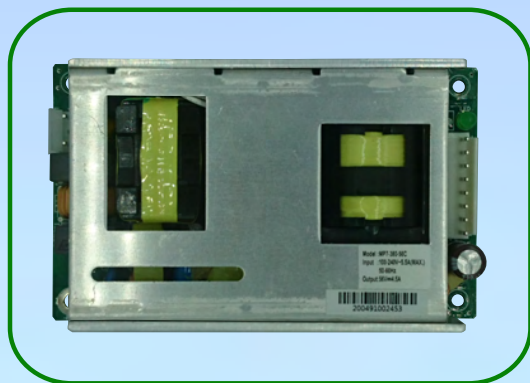
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3" x 5" Power Supply

MP7-380 series 240W~380W

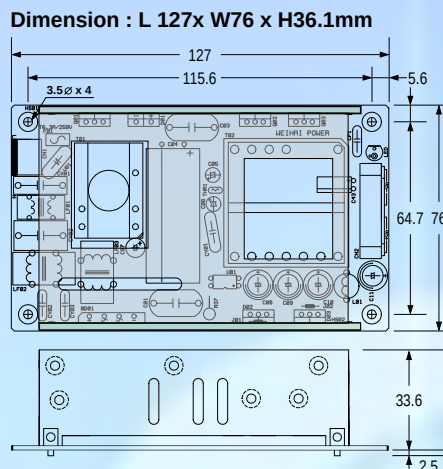
SINGLE OUTPUT



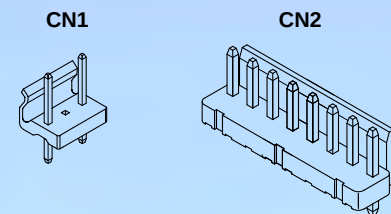
SPECIFICATION

Model Name		MP7-380-12z	MP7-380-24z	MP7-380-54z	MP7-380-56z
Input	Voltage	90VAC~264VAC			
	Frequency(Hz)	47Hz~63Hz			
	Inrush current	<80A(230VAC)			
	Power factor correction	PF≥0.95 at full load			
Output	Voltage	12V	24V	54V	56V
	Current (16.5 CFM fan)	20A	15A	7A	6.8A
	Voltage tolerance	±5%			
	Ripple & Noise	120mV	240mV	540mV	560mV
	Max. output power (Forced air)	240W	360W	378W	380W
	Efficiency (typ.)	>89%			
	Hold up time	≥16.7ms @115VAC			
	Setup, rise time	<1000ms, 20ms			
Protection	Over current	Auto recovery mode			
	Over voltage	Latch mode			
	Over temperature	Latch mode			
Environment	Operating temperature	-40℃ ~ 70℃			
	Storage temperature	-40℃ ~ 70℃			
	Humidity	10% ~ 90%			
	MTBF	>100,000hrs @25℃ (MIL-HDBK-217F)			
EMI requirements		EN 55022 class B, EN61000-4-2-2,4,5			
Safety meet requirements		UL 60950, EN 60950			
Dimension (L x W x H mm)		127 x 76 x 36.1 mm (max.)			

MECHANICAL DRAWING



CONNECTOR



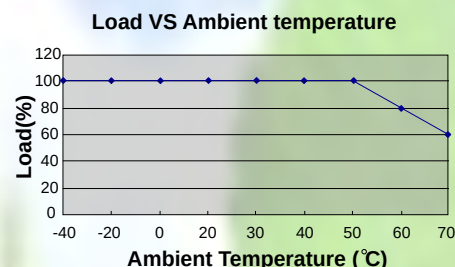
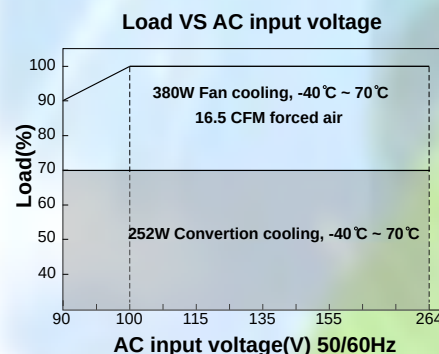
CN1 Input connector
Weli Sheng M3-I39601S or equivalent

Pin	AC Input voltage
L&N	90-264VAC

CN2 Output connector
Weli Sheng M8-I39606 or equivalent

Pin	DC Output voltage
1	Common
2	Common
3	Common
4	Common
5	Vo
6	Vo
7	Vo
8	Vo

DE-RATING CURVE

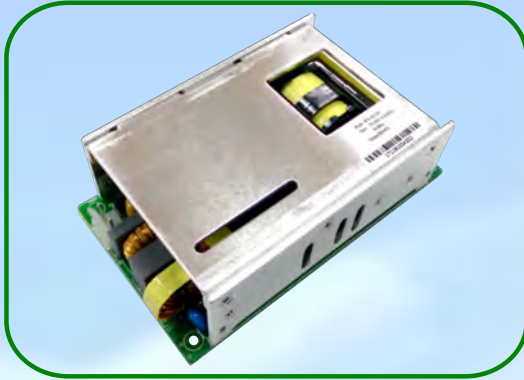


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MP9-400 series 248W~392W

SINGLE OUTPUT

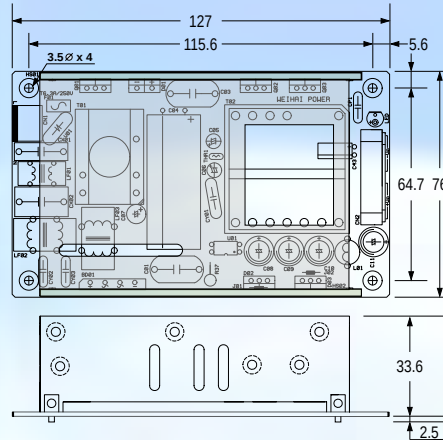


SPECIFICATION

Model Name		MP9-250-54z	MP9-250-56z	MP9-400-54z	MP9-400-56z
Input	Voltage	90VAC~264VAC			
	Frequency(Hz)	47Hz~63Hz			
	Inrush current	<80A(230VAC)			
	Power factor correction	PF≥0.95 at full load			
Output	Voltage	54V	56V	54V	56V
	Current	4.6A	4.6A	7A	7A
	Voltage tolerance	53.5V~56V			
	Ripple & Noise	540mV	560mV	540mV	560mV
	Max. output power (Forced air)	248.4W	257.6W	378W	392W
	Efficiency (typ.)	89%			
	Hold up time	≥8ms @115VAC			
	Setup, rise time	<1000ms, 20ms			
Protection	Over current	Auto recovery mode			
	Over voltage	Latch mode			
	Over temperature	Latch mode			
Environment	Operating temperature	-40°C ~ 50°C			
	Storage temperature	-40°C ~ 85°C			
	Humidity	20% ~ 85%			
	MTBF	>100,000hrs @25°C (MIL-HDBK-217F)			
EMI requirements		EN 55022 class B, EN61000-4-2-2,4,5			
Safety meet requirements		UL 62368, EN 62368			
Dimension (L x W x H mm)		127 x 76 x 36.1 mm (max.)			

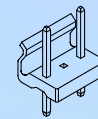
MECHANICAL DRAWING

Dimension : L 127x W76 x H36.1mm

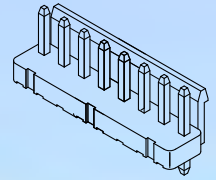


CONNECTOR

CN1



CN2



CN1 Input connector

Weli Sheng M3-I39601S or equivalent

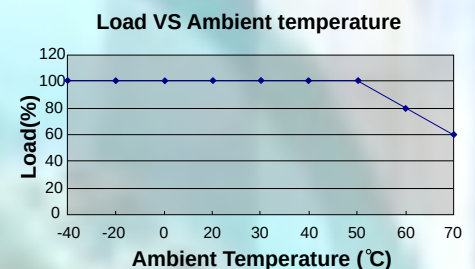
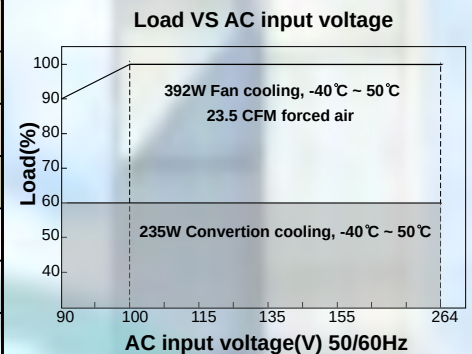
Pin	AC Input voltage
L&N	90-264VAC

CN2 Output connector

Weli Sheng M8-I39606 or equivalent

Pin	DC Output voltage
1	Common
2	Common
3	Common
4	Common
5	Vo
6	Vo
7	Vo
8	Vo

DE-RATING CURVE



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E-MAIL: sales@wpe.com.tw

ASB150PN series 150W

SMART & INTELLIGNET CHARGER

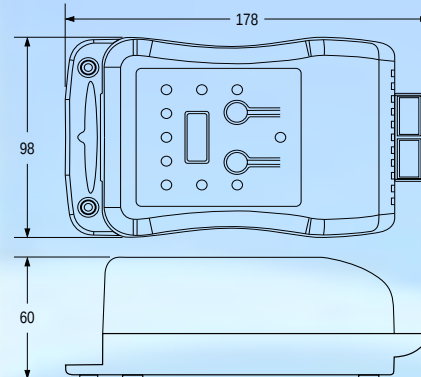


FEATURE

- Full range : 100VAC~240VAC
 - LED Display Indicator
 - Battery Recondition
 - Fault Diagnostic
 - Four - Stage Charging
 - Over Charge Protection
 - FAN For Micro-Control
 - Error Code
- E-1 : Battery Type Error
E-2 : Old Battery OR Bad Battery
E-3 : Battery Polarity Reversal
E-4 : Temperature Protection

CASE DRAWING

- Dimension : L 178x W98 x H60mm



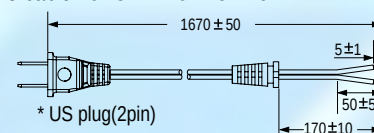
SPECIFICATION

MODEL NAME		ASB150PN-12V	ASB150PN-24V
Output	Charger voltage	REG/GEL/DEEP=14.5V / 14V / 15.3V	REG/AGM/GEL=29V / 29V / 28V
	Float voltage	13.6V	27.2V
	Charger range (A)	2A-10A	2A-5A
	Battery capacity	10A-200AH	10A-200AH
	Battery type	REG / AGM / GEL / DEEP	
	Battery leakage current	<1mA	
Input	Voltage range	90Vac ~ 264Vac	
	Frequency range	47Hz ~ 63Hz	
	Power factor (Typ.)	> 0.6 Full load	
	Efficiency (Typ.)	83%	
	AC current	4A / 110Vac, 2A / 220Vac	
	Inrush current (Typ.)	Cold start 40A / 110Vac, 80A / 220Vac	
	Leakage current	3.5mA / 220Vac	
Protection	Over voltage	> 20V Auto-recovery	
	Over temperature	> 105 °C, < 85 °C recharger	
	Short circuit	Auto-recovery	
	Polarity reversal	Yes	
Environment	Operating temperature	0°C ~ +50°C	
	Operating humidity	20% ~ 85%	
	Storage temperature	-40°C ~ +85°C	
	Temp. coefficient	±0.03% / °C (0 ~ 50°C)	
	Vibration	10~500Hz, 2G 10min./1 cycle, 60min. each along X,Y,Z axes	
Safety & EMC	Safety standards	Meet UL1310 or UL1210	
	Withstand voltage	3000Vac 10mA for 60 seconds from primary to secondary	
	Isolation resistance	100 Mega ohms / 500Vac / 25°C / 70%	
	EMC emission	Complying to EN55022 (CISPR22); EN61000-3-2,-3	
	EMC immunity	Complying to EN61000-4-2,4,5	
On-off life		10,000 times repetition at 110Vac input	
Operation life		50,000 power-on hours at 25°C	
Dimension (L x W x H mm)		178 x 98 x 60mm (Case only)	
Charger weight (N.W.)		680g (Standard type)	

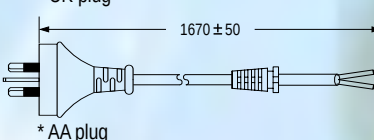
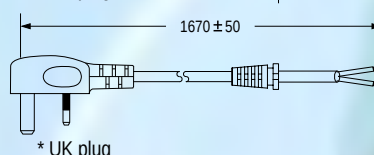
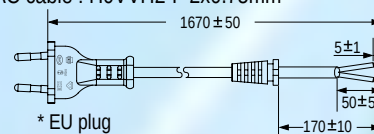
CABLE & CONNECTOR

- AC cable & AC plug(option)

* AC cable : UL SPT-2 18AWG x 2C

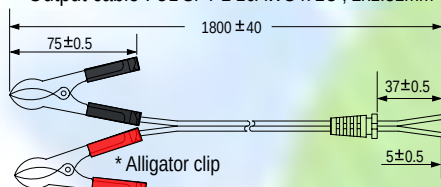


* AC cable : H0VVH2-F 2x0.75mm²

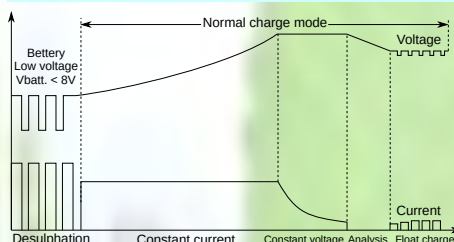


- Output cable & connector

* Output cable : UL SPT-2 16AWG x 2C, 2x1.31mm²



CHARING STEPS



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RS-350 series 200W~350W

SINGLE OUTPUT



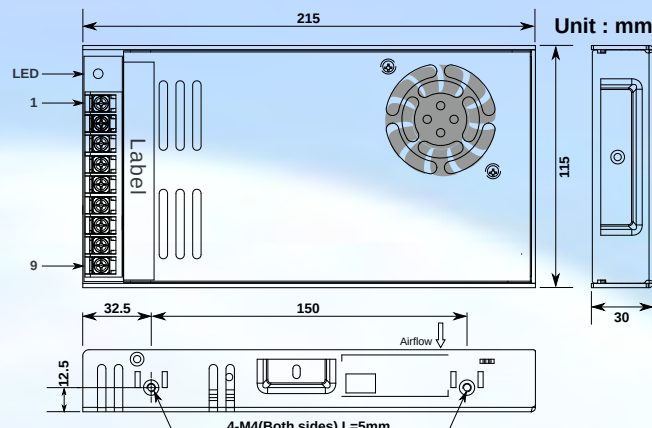
SPECIFICATION

Model Name		RS-350-5	RS-350-12	RS-350-24	RS-350-48
Input	Voltage	90VAC~132VAC / 180VAC~264VAC (Manual transfer switch)			
	Frequency(Hz)	47Hz~63Hz			
	Inrush current	<60A(110VAC) <80A(220VAC)			
Output	Voltage	5V	12V	24V	48V
	Current	50A	29.1A	14.6A	7.3A
	Voltage tolerance	4.75V~5.25V	11.4V~12.6V	22.8V~25.2V	45.6V~50.4V
	Ripple & Noise	100mV	120mV	240mV	480mV
	Max. output power (Forced air)	250W	350W	350W	350W
	Efficiency (typ.)	80%	80%	83%	86%
	Hold up time	≥8ms @110VAC			
Protection	Setup, rise time	<2000ms, 20ms			
	Over current	Auto recovery mode			
	Over voltage	Auto recovery mode			
Environment	Over temperature	Auto recovery mode			
	Operating temperature	-10°C ~ 60°C			
	Storage temperature	-20°C ~ 85°C			
	Humidity	20% ~ 85%			
MTBF		>100,000hrs @25°C (MIL-HDBK-217F)			
EMI requirements		CISPR32/EN 55032 class A			
Safety meet requirements		IEC/EN/UL62368-1, EN60335, GB4943			
Dimension (L x W x H mm)		215 x 115 x 30 mm (Tolerance : ±0.5mm)			
Power weight (N.W.)		662.5g ± 2g			

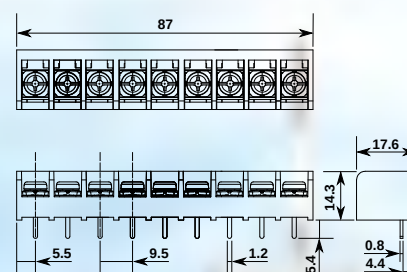
MECHANICAL DRAWING

- Dimension : L215x W115 x H30mm

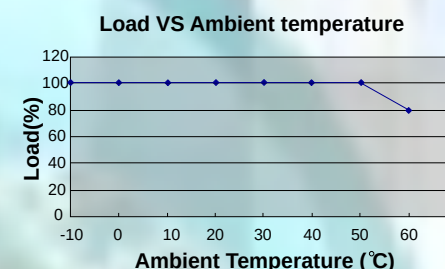
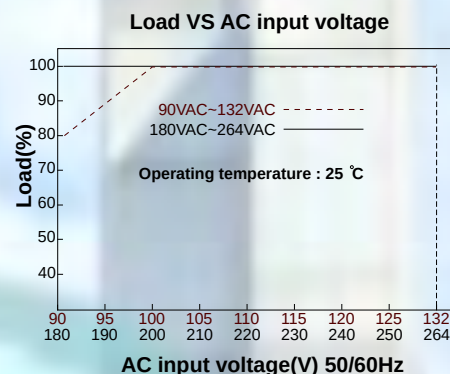
Pin no.	Function
1	+Vo
2	+Vo
3	+Vo
4	-Vo
5	-Vo
6	-Vo
7	⏏
8	AC(N)
9	AC(L)



- Screw terminal block



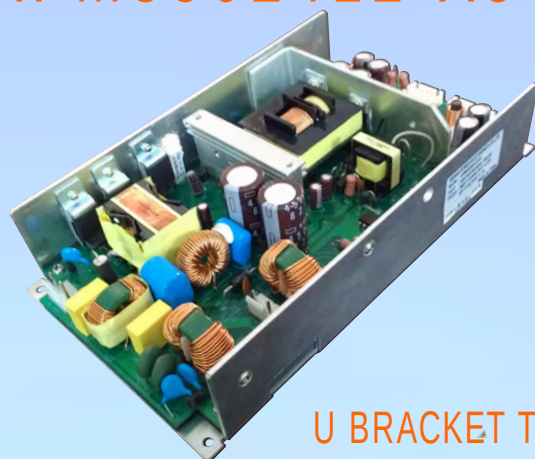
DE-RATING CURVE



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HPM3502412-X5



U BRACKET TYPE

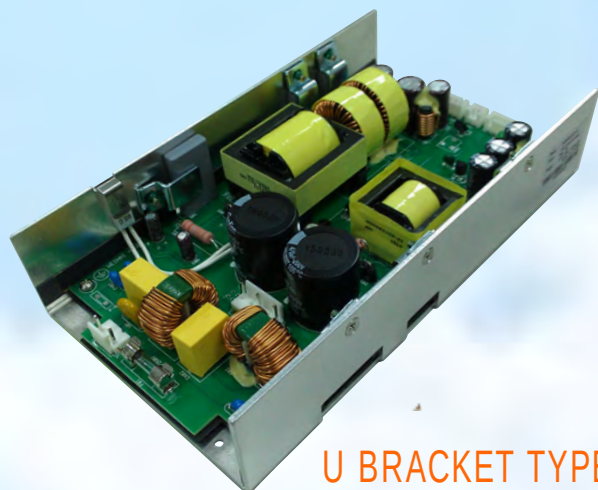
Output Voltage/Current Rating Chart

Model Name	Output	V norm.	I min.	I max.	Tolerance	Output Power
HPM3502412-X5	#1	+5Vsb	0A	1A	±5%	372W
	#2	+12V	.0A	5A	±5%	
	#3	+24V	0A	2.5A	±5%	
	#4	380V	0A	0.65A	±5%	

SPECIFICATION

- Dimension, L210 x W120 x H42mm
- Input voltage, 90VAC ~ 264VAC
- Frequency, 47Hz ~ 63Hz
- Efficiency, >85%
- Over current protection, Latch mode or Auto-recovery
- Over voltage protection, Latch mode or Auto-recovery
- Short circuit protection, Latch mode or Auto-recovery
- Operating temperature, 0 °C ~ +50 °C
- Storage temperature, -40 °C ~ +70 °C
- MTBF, >80,000hrs @ 25 °C(MIL-HDBK-217F)
- EMI requirements, EN55022 class B, EN61000-4-2,4,5
- Safety meet requirements, UL60950, EN620950

HOD4002412-U1



U BRACKET TYPE

Output Voltage/Current Rating Chart

Model Name	Output V norm.	I min.	Regulation Tolerance	Max. Current.	Output Power
HOD4002412-U1	+12Vsb	0A	2A	30A	384W
	+24V	0A	15A	15A	

SPECIFICATION

- Dimension, L190 x W109 x H40mm
- Input voltage, 90VAC ~ 264VAC
- Frequency, 47Hz ~ 63Hz
- Efficiency, > 86%
- Over current protection, Latch mode or Auto-recovery
- Over voltage protection, Latch mode or Auto-recovery
- Short circuit protection, Latch mode or Auto-recovery
- Operating temperature, 0 °C ~ +40 °C
- Storage temperature, -40 °C ~ +70 °C
- MTBF, >50,000hrs @ 25 °C(MIL-HDBK-217F)
- EMI requirements, EN55022 class B, EN61000-4-2,4,5
- Safety meet requirements, UL60950, EN60950



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MP6-600 SERIES



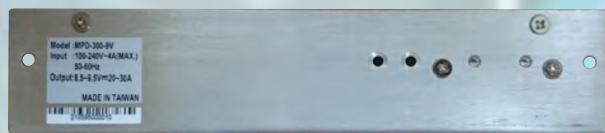
SPECIFICATION

- Dimension, L165 x W100 x H40mm
- Input voltage, 90VAC ~ 264VAC
- Frequency, 47Hz ~ 63Hz
- Efficiency, >85%
- Over current protection, Latch mode or Auto-recovery
- Over voltage protection, Latch mode or Auto-recovery
- Short circuit protection, Latch mode or Auto-recovery
- Operating temperature, -0 °C ~ +50 °C
- Storage temperature, -40 °C ~ +70 °C
- MTBF, >80,000hrs @ 25 °C(MIL-HDBK-217F)
- EMI requirements, EN55022 class B, EN61000-4-2,4,5
- Safety meet requirements, UL62368-1, EN62368-1

Output Voltage/Current Rating Chart

Model Name	Output	V norm.	I min.	I max.	Tolerance	Output Power
MP6-600-24P	#1	+24V	0.1A	15A	±5%	300W
MP6-600-40P	#1	+40V	0.1A	15A	±5%	600W
MP6-600-56A	#1	+12Vsb	0A	1.5A	±5%	597W
	#2	+56V	0.1A	10.33A	±5%	

MPD-300-9V



SPECIFICATION

- Dimension, L186 x W69 x H41mm
- Input voltage, 90VAC ~ 264VAC
- Frequency, 47Hz ~ 63Hz
- Efficiency, > 84%
- Power saving ≤ 0.3W at 115Vac or 230Vac
- Over current protection, Auto-recovery mode
- Over voltage protection, Auto-recovery mode
- Short circuit protection, Auto-recovery mode
- Operating temperature, 0 °C ~ +50 °C
- Storage temperature, -40 °C ~ +70 °C
- MTBF, >50,000hrs @ 25 °C(MIL-HDBK-217F)
- EMI requirements, EN55022 class B, EN61000-4-2,4,5
- Safety meet requirements, UL62368, EN62368

Output Voltage/Current Rating Chart

Model Name	Output V norm.	I min.	Regulation Tolerance	Max. Current.	Output Power
MPD-300-9V	9V	0A	8~10A	30A	270W



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WDS150 series 120~180W For thermal printer use

SINGLE OUTPUT



UNIVERSAL INPUT

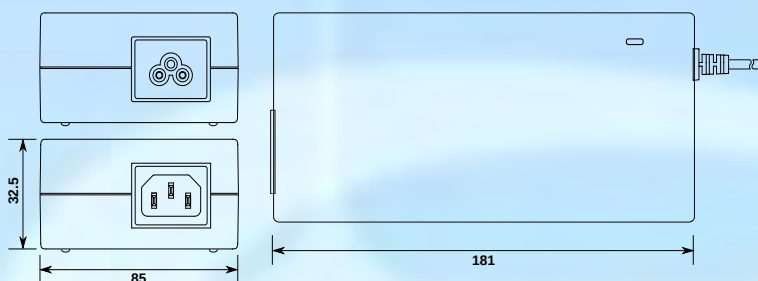
**POS printer, Label printer,
3D printer, Plotter use.**

DIMENSION

- L181x W85x H32.5mm(Max.)

AC inlet : IEC-320-C14 & C6 Type

Unit : mm
Tolerance : ±0.2mm



GENERAL SPECIFICATION

- Input voltage 90VAC ~ 264VAC
- Frequency 47Hz ~ 63Hz
- Efficiency 88% type at full load
- Hold-up time 8.3ms at full load, (100V)
- Withstand voltage 1500 VAC, input to output
- MTBF 50,000 hours
- Burn-in 100% for all shipped units
- EMI requirements Meets conduction limits of
a) FCC class B
b) CISPR class B
- Safety requirements Approval
a) UL 62368
b) EN 62368

Pin definition for dual output

Mini-Din 6pin Mini-Din 5pin Mini-Din 4pin Din 4pin



★ DC output pins depend on customers' requirement

Plug definition for single output



★ DC output plug depend on customers' requirement

Output Voltage/Current Rating Chart

Model Name	Output Wattage	Output Voltage	Output Current
WDS120120	120W	12V	10A
WDS132120	132W	12V	12.5A
WDS150120	150W	12V	7.5A
WDS120240	120W	24V	5A
WDS132240	132W	24V	5.5A
WDS150240	150W	24V	6.25A(Peak 20A)
WDS180240	180W	24V	7.5A



Safety application : 40°C Ambient temperature

★ Meets the requirements of these agencies



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Water proof Type



SPECIFICATION

- Port, QC 3.0 & USB 5V/2.4A,
- Input voltage, 12V~24VDC,
- Input current, 3.0A(peak 6.0A at startup)
- Efficiency, >88%
- Over current protection, 7.5V(max.)/Latch mode
- Over temperature protection, 140~150 °C/Auto-recovery
- Short circuit protection, Latch mode
- Operating temperature, -0 °C ~ +40 °C
- Storage temperature, -20 °C ~ +70 °C
- Safety meet requirement, CE/FCC/RoHS,
- Weight, 100g
- Cable, UL2464 / 22AWG / length, 1.8m

USB 5V 2.1A x 1 PORT



QK 2.4A + Smart PD



5V 2.4A x 2 + Type-C



5V 2.4A x 2 + QC 3.0



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China Factory : SHANGHAI SHUNLIANG INDUSTRIAL CO., LTD.

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