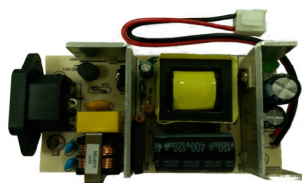
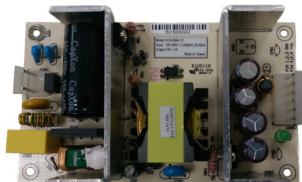


HPSE series 60W~250W Open Frame Power 5" x 3"

HPSE-065-XX



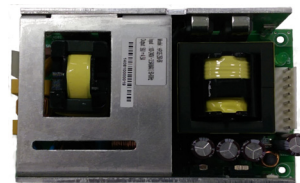
HOS-084A-XX



HPSE-150-XX



HPSE-250-XX



UNIVERSAL INPUT / SINGLE OUTPUT

FEATURE

- Universal input voltage / Full range
- Low ripple & noise
- Over current protection
- Over voltage protection
- Short circuit protection
- Temperature protection

- High efficiency
- High reliability
- Power factor correction ≥ 0.95
- 100% burn-in
- 2 years product warranty

SPECIFICATION

Model Number	HPSE-065-XX	HOS-084A-XX	HPSE-150-XX	HPSE-250-XX	
Input	Voltage 90 - 264VAC				
	Frequency(Hz) 47Hz - 63Hz				
	Inrush current	<100A at 230VAC	<80A at 230VAC	<80A at 230VAC	<80A at 230VAC
	Power factor correction	> 0.95 at full load			
Output	Efficiency	85%	86%	90%	88%
	Hold up time	$\geq 8ms @ 115VAC$	$\geq 8ms @ 115VAC$	$\geq 8ms @ 115VAC$	$\geq 8ms @ 115VAC$
	Setup, rise time	<2000ms, 20ms	<2000ms, 20ms	<2000ms, 20ms	<2000ms, 20ms
Protection	Over current protection	Auto-recovery mode			
	Over voltage protection	Latch mode			
	Short circuit protection	Auto-recovery mode			
Environment	Operating temperature	0°C ~ +50°C			
	Storage temperature	- 40°C ~ +70°C			
	Humidity	20% ~ 85%			
	MTBF	50,000hrs @ 25°C			
EMI requirements	EN55022 class B, EN61000-4-2-2,4,5				
Safety meet requirements	UL60950 third edition, EN60950				
Dimension (L x W x H mm)	106 x 60.5 x 27.5mm	127 x 76 x 28mm	127 x 76 x 32mm	127 x 76 x 34.6mm	

OUTPUT VOLTAGE/CURRENT RATING CHART

CE FC

Model Number	V normal	I minimum	I maximum	Tolerance	Ripple & Noise	Max. Output Power
HPSE-065-12	12V	0A	5A	±5%	120mV	60W
HPSE-065-24	24V	0A	2.5A	±5%	240mV	60W
HPSE-065-48	48V	0A	1.35A	±5%	480mV	65W
HPSE-065-56	56V	0A	1.16A	±5%	560mV	65W
Model Number	V normal	I minimum	I maximum	Tolerance	Ripple & Noise	Max. Output Power
HOS-084A-12	12V	0A	7A	±5%	120mV	84W
HOS-084A-24	24V	0A	3.5A	±5%	240mV	84W
HOS-084A-48	48V	0A	1.75A	±5%	480mV	84W
HOS-084A-56	56V	0A	1.5A	±5%	560mV	84W
Model Number	V normal	I minimum	I maximum	Tolerance	Ripple & Noise	Max. Output Power
HPSE-150-12	12V	0A	11A	±5%	120mV	132W
HPSE-150-19	19V	0A	7.5A	±5%	190mV	142W
HPSE-150-24	24V	0A	6A	±5%	240mV	144W
HPSE-150-32	32V	0A	4.7A	±5%	320mV	150W
HPSE-150-48	48V	0A	3.125A	±5%	400mV	150W
HPSE-150-56	56V	0A	2.7A	±5%	560mV	150W
Model Number	V normal	I minimum	I maximum	Tolerance	Ripple & Noise	Max. Output Power
HPSE-250-12	12V	0A	20A	±5%	120mV	230W
HPSE-250-19	19V	0A	12.6A	±5%	190mV	240W
HPSE-250-24	24V	0A	10A	±5%	240mV	240W
HPSE-250-32	32V	0A	8.75A	±5%	320mV	250W
HPSE-250-48	48V	0A	5.2A	±5%	480mV	250W
HPSE-250-56	56V	0A	4.5A	±5%	560mV	250W



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HAS024 series 10~24W Wall Mount Adapter

SINGLE OUTPUT

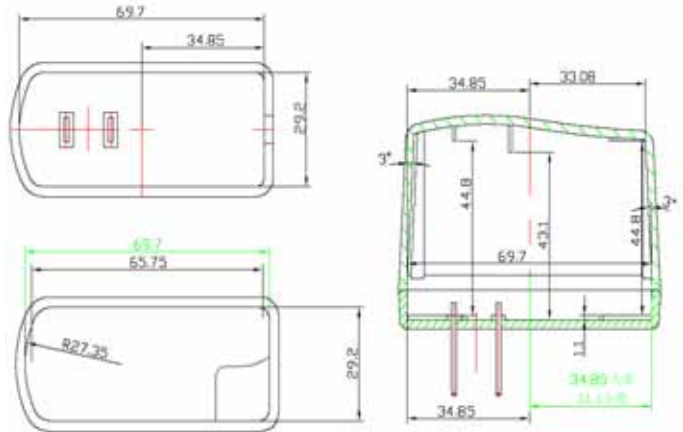


UNIVERSAL INPUT

AC/DC Switching Adapter High Performance

DIMENSIONS

- L75*W55*H34.5mm (Max.)



AC Plug Type: With US/EU/UK/AA

FEATURE

- Universal Input Voltage 90 to 264VAC
- High Efficiency 80% typical
- High Reliability
- Low Ripple & Noise
- Short Circuit Protection
- Over Voltage Protection
- Limited Power Source

ENVIRONMENTAL

- Operating Temperature: 0 ~ +40
- Operating Humidity: 20% ~ 85%
- Storage Temperature: - 40 ~ +70
- Storage Humidity: 10% ~ 95%
- Hi-Pot: 3,000VAC 1Sec. (P. to S.) for class II
- MTBF > 50,000Hrs at 25

* Output Voltage/Current Rating Chart

Model Name	Output Wattage	Output Voltage	Output Current	Application
HAS010052Z-ZZ	10W	5V	2A	External enclosure, Set-Top Box, Telecom, POS, DVD player...etc.
HAS015052Z-ZZ	15W	5V	3A	
HAS02009Z-ZZ	19.8W	9V	2.2A	
HAS01512Z-ZZ	15W	12V	1.25A	
HAS02412Z-ZZ	24W	12V	2A	
HAS01215U-Y1	12W	15V	0.8A	



Approval standard : UL60950, EN60950.

Safety application : 40 Ambient temperature

Meets the requirements of these agencies

SW34 series 34W Desk-Top Adapter

Single / Dual Out Standing Switching Power Supply for External Enclosure !

**Power Saving Standard Mode
High Performance**

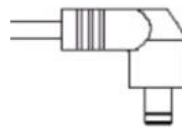


IEC-320-C8



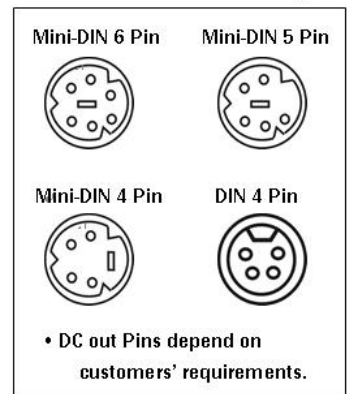
Plug definition for Single Output

Hollow Plug



• DC output Plug depend on customers' requirements.

Pin definition for Dual Output



Hollow Plug R/A



FEATURE

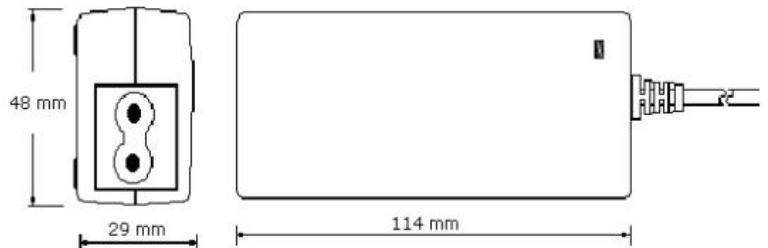
- Universal Input Voltage 90 to 264VAC
- High Efficiency 78% typical at Full Load
- High Reliability
- Low Ripple & Noise 1% Max. (output voltage)
- Short Circuit Protection
- Over Voltage Protection
- Limited Power Source

ENVIRONMENTAL

- Operating Temperature: 0 ~ +40
- Operating Humidity: 20 ~ 85%
- Storage Temperature: - 40 ~ +70
- Storage Humidity: 10 ~ 95%
- Hi-Pot: 3,000VAC 1Sec. (P. to S.) for class II
- MTBF > 50,000Hrs at 25 Ambient Temperature

DIMENSIONS

- L114*W48*H29mm (Adapter)



Model Name	Wattage	Voltage 1	Voltage 2	Current 1	Current 2	Application
SW34-1202A02	34W	12V	5V	2A	2A	External Enclosure, DVD Player, LCD Monitor
SW34-1201A52	25W	12V	5V	1.5A	1.5A	
SW34-1203A01	36W	12V	NA	3A	NA	
SW34-1202A01	24W	12V	NA	2A	NA	
SW34-0504A01	20W	5V	NA	4A	NA	



Approval standard : UL60950, EN60950.

Safety application : 40 Ambient temperature.

* Meets the requirements of these agencies.

* The application of the Korean safety for SW34-1202A02 depends on customers' needs.

HAS065 series 65W Desk-Top Adapter

SINGLE OUTPUT



UNIVERSAL INPUT

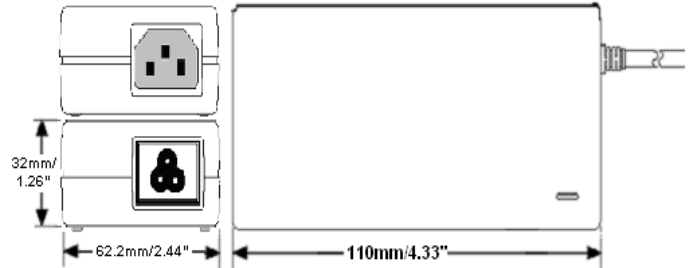
Power Saving Standard Mode
High Performance

DIMENSIONS

- **L110*W62.2*H32mm (Max.)**

AC inlet: IEC-320-C14 & C6 Type

Unit : mm / inch
Tolerance: ±0.2mm



FEATURE

- Universal Input Voltage 90 to 264VAC
- High Efficiency 80% typical
- High Reliability
- Low Ripple & Noise
- Short Circuit Protection
- Over Voltage Protection
- Limited Power Source

ENVIRONMENTAL

- Operating Temperature: 0 ~ +40
- Operating Humidity: 20% ~ 85%
- Storage Temperature: - 40 ~ +70
- Storage Humidity: 10% ~ 95%
- Hi-Pot: 1,500VAC 1Sec. (P. to S.) for class I
- MTBF > 50,000Hrs at 25

* Output Voltage/Current Rating Chart

Model Name	Output Wattage	Output Voltage	Output Current	Application
HAS035053-XX	35W	5V	7A	Wireless AP
HAS042123-XX	42W	12V	3.5A	LCD Monitor, POS
HAS050123-XX	50W	12V	4.16A	LCD Monitor, POS
HAS060123-XX	60W	12V	5A	LCD Monitor, POS, DVR.
HAS042193-XX	42W	19V	2.21A	Notebook
HAS065193-XX	65W	19V	3.42A	Notebook
HAS048243-XX	48W	24V	2A	Printer, Fax, POS
HAS060243-XX	60W	24V	2.5A	Printer, Fax, POS
HAS066243-XX	66W	24V	2.75A	Printer, Fax, POS
HAS060303-XX	60W	30V	2A	Wireless AP
HAS060323-XX	60W	32V	1.87A	Wireless AP
HAS060363-XX	60W	36V	1.65A	Wireless AP
HAS040483-XX	40W	48V	0.85A	Repeater
HAS060483-XX	60W	48V	1.25A	Repeater



Approval standard : UL60950, EN60950.

Safety application : 40 Ambient temperature

Meets the requirements of these agencies

HTM180FH series 164W 26"~32" TV Power

MULTIPLE OUTPUT



UNIVERSAL INPUT

Power Saving Standard Mode
High Performance

DIMENSIONS

- L180*W100*H31mm (Max.)

FEATURE

- Universal Input Voltage 90 to 264VAC
- High Efficiency
- High Reliability
- Low Ripple & Noise
- Short Circuit Protection
- Over Voltage Protection
- Over Current protection
- Power Factor Correction 0.94
- 100% Burn-in
- PSON Control
- Temperature Protection
- POWER Saving < 1W at 110VAC/230VAC

ENVIRONMENTAL

- Operating Temperature: 0 ~ +50
- Operating Humidity: 20% ~ 85%RH
- MTBF > 50,000Hrs at 50

SAFETY MEETS

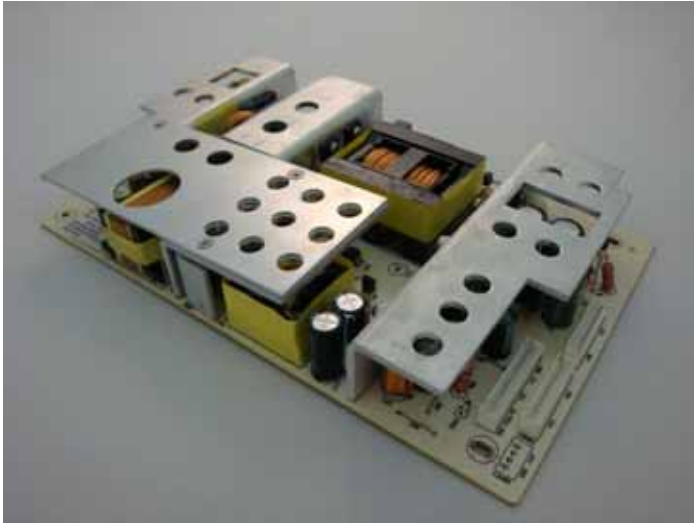
- Meets UL/TUV, UL60950, UL6500, EN60950, EN60065 stander safety meets

* Output Voltage/Current Rating Chart

Model Name	Output	V norm.	I min.	I max.	Tolerance	Max. Output Power
HTM180FH-T8	#1	24V	0A	4A	±5%	164W
	#2	12V	0A	4A	±5%	
	#3	5V	0A	3A	±5%	
	#4	+5Vsb	0A	1A	±5%	

HTM250FH series For 32"~42" TV Power Use

MULTIPLE OUTPUT



UNIVERSAL INPUT

*Power Saving Standard Mode
High Performance*

DIMENSIONS

- L210*W130*H30mm (Max.)

ENVIRONMENTAL

- Operating Temperature: 0 ~ +50
- Operating Humidity: 20% ~ 85%RH
- MTBF > 50,000Hrs at 50

SAFETY MEETS

- Meets UL/TUV, UL60950, UL6500, EN60950, EN60065 stander safety meets

FEATURE

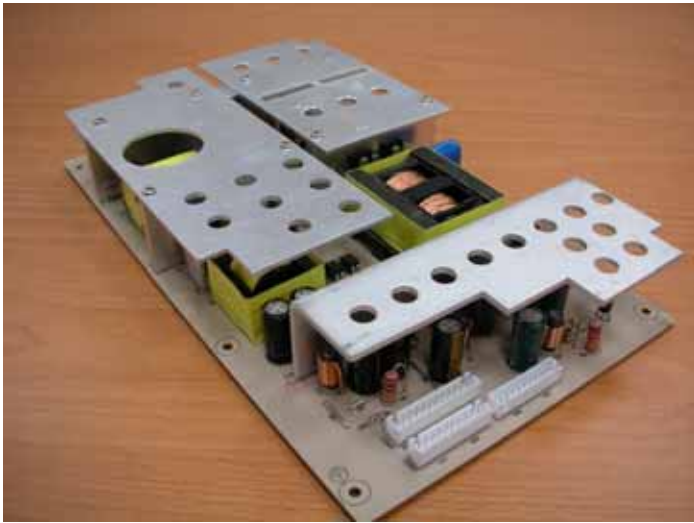
- Universal Input Voltage 90 to 264VAC
- High Efficiency
- High Reliability
- Low Ripple & Noise
- Short Circuit Protection
- Over Voltage Protection
- Over Current protection
- Power Factor Correction 0.94
- 100% Burn-in
- PSON Control
- Temperature Protection
- POWER Saving < 1W at 110VAC/230VAC

* Output Voltage/Current Rating Chart

Model Name	Output	V norm.	I min.	I max.		Tolerance	Max. Output Power
				Model 1	Model 2		
HTM250FH-T2	#1	24V	0A	6A	5.5A	±5%	205W
	#2	12V	0A	3A	4A	±5%	
	#3	5V	0A	4A		±5%	
	#4	+5Vsb	0A	1A		±5%	
HTM250FH-T9	#1	24V	0A	8A	9A	±5%	277W
	#2	12V	0A	5A	3A	±5%	
	#3	5V	0A	4A		±5%	
	#4	+5Vsb	0A	1A		±5%	

HTM350PH series For 47" TV Power Use

MULTIPLE OUTPUT



UNIVERSAL INPUT

Power Saving Standard Mode
High Performance

DIMENSIONS

- L240*W140*H34mm (Max.)

FEATURE

- Universal Input Voltage 90 to 264VAC
- High Efficiency
- High Reliability
- Low Ripple & Noise
- Short Circuit Protection
- Over Voltage Protection
- Over Current protection
- Power Factor Correction 0.94
- 100% Burn-in
- PSON Control
- Temperature Protection
- POWER Saving < 1W at 110VAC/230VAC

ENVIRONMENTAL

- Operating Temperature: 0 ~ +50
- Operating Humidity: 20% ~ 85%RH
- MTBF > 50,000Hrs at 50

SAFETY MEETS

- Meets UL/TUV, UL60950, UL6500, EN60950, EN60065 stander safety meets

* Output Voltage/Current Rating Chart

Model Name	Output	V norm.	I min.	I max.		Tolerance	Max. Output Power
				Mode 1	Mode 2		
HTM350PH-F7	#1	24V	0A	11A	12A	±5%	349W
	#2	12V	0A	5A	3A	±5%	
	#3	5V	0A	4A		±5%	
	#4	+5Vsb	0A	1A		±5%	



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