

Index

● DIN Rail Mounting Power Supply



20W - 48W (Plastic Housing, Single Output)	P.1
40W - 60W (Metal Housing, Single and Dual Output)	P.2
72W - 100W (Metal Housing, Single and Dual Output)	P.3
120W - 150W (Metal Housing, Single and Dual Output)	P.4
240W - 360W (Metal Housing, Single and Dual Output)	P.5
240W - 360W (Metal Housing, Single and Dual Output, Active PFC)	P.6 - P.7
Operation Manual	P.7
500W (Metal Housing, Single and Dual Output)	P.8

● Lead-Acid Battery Charger



60W (Plastic Housing, 3-Stage Charging Control)	P.9
90W (Plastic Housing, Built-in MCU)	P.10
150W (Metal Housing, 3-Stage Charging Control)	P.11
150W (Plastic Housing, Built-in MCU)	P.12
150W (Metal Housing, Built-in MCU)	P.13
240W (Metal Housing, Built-in MCU)	P.14
300W (Metal Housing, 3-Stage Charging Control)	P.15
360W (Metal Housing, 3-Stage Charging Control)	P.16

Company Profile

To be a satisfactory partner of the field of electronic industry is the vision of Acro Engineering Inc. We integrated an excellent factory area, talented R&D and experienced QC engineer to establish Acro Engineering Inc. in 2005. The cadre members have been dedicated in switching mode power supply for more than 15 years, and experienced diverse application of switching power supply. Via their excellent expertise and sincerity service, the perfect team is dedicated to provide best serve to our international customers with quality products that are reliable, cost effective and on time delivery. Based on the strong organization, Acro Engineering Inc. has built hundreds standards models and cooperated many customers' design project, and get extreme satisfaction from our customers.

2005

Developed standard products - DIN rail power supplies. Implemented RoHS compliance and CE declaration. Conduct green mode concept and announced quasi-resonant product.

2006

Cooperated with EPS to develop smart battery charger for electric vehicle that proceed charging procedure by MCU. And supply lead-acid battery charger to Australia army. Acquired CE and CB report for DIN rail power supply, and TUV certificate for specific models. Developed power supply for LED pedestrian traffic count down system.

2007

Developed constant current control LED power supply for office and street lighting. Built distribution network that include Taiwan, Spain, Italy, Israel, Iran, Turkey, South Africa, Germany, Peru, India and UK. Successfully develop and production back-up power device for Bosch Security System.

2008

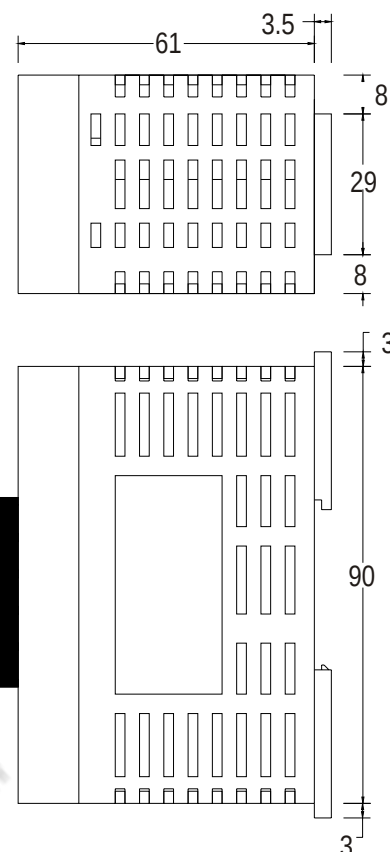
Launched new DIN rail power supplies for DC motor with high peak current and CEMF damper. Partner with AccuTherm to develop smart battery charger for electric tool that charging NiCD, NiMH and LI-ion Battery automatically. Develop power supply for elevator which with wide input range 170 - 528VAC.

2009

60 DIN rail models Acquired UL508 approval.. Successfully design and manufacture IP 67 power supply for LED contour lighting of Taipei building. Developed constant current power supply with single stage active PFC.

2010

Distribution network extend to Russia, Thailand, Malaysia, South Korea and China.. Develop and manufacture power supply for LED traffic lamp and count down system. Successfully design IP54 power supply for electric tool, and having UL certificate.

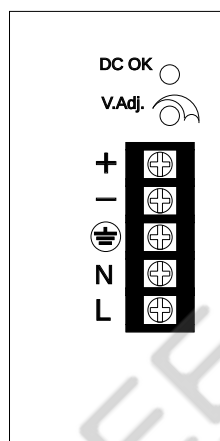


INPUT

Input voltage100~240VAC/120~370VDC
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery



Dimensions:75(D)x96(H)x45(W)mm

AD1024F Series

Single output

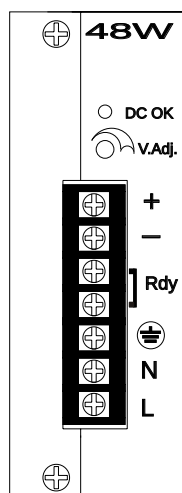
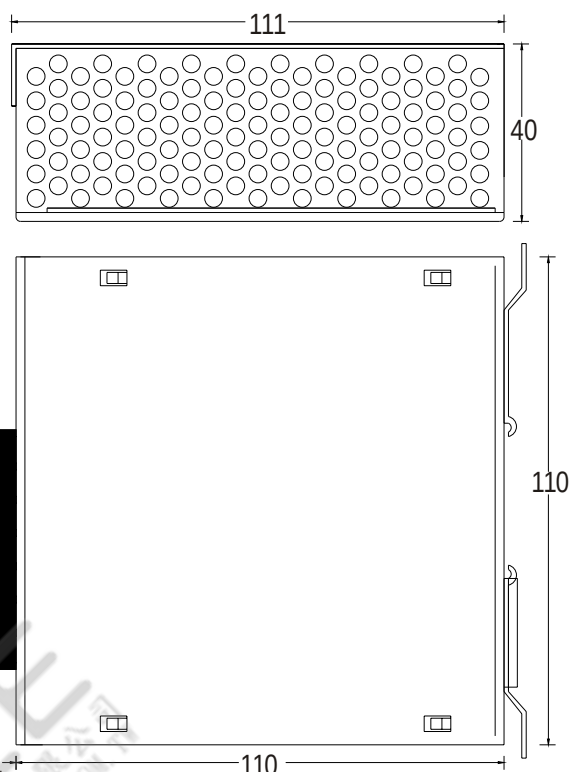
Model	O/P voltage Adjustment	Loading (A)			Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
		Min.	Rated	Max.										
AD1020-05F	+5VDC±10%	0A	4A	4A	50mVp-p	±1%	±1%	78%	7VDC Max.	None	None	Yes	Yes	Yes
AD1024-12F	+12VDC±10%	0A	2A	2A	100mVp-p	±1%	±1%	80%	20VDC Max.	None	None	Yes	Yes	Yes
AD1024-24F	+24VDC±10%	0A	1A	1A	150mVp-p	±1%	±1%	83%	40VDC Max.	None	None	Yes	Yes	Yes

AD1048FS Series

Single output

Model	O/P voltage Adjustment	Loading (A)			Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
		Min.	Rated	Max.										
AD1048-12FS	+12VDC±10%	0A	4A	4A	100mVp-p	±1%	±1%	80%	20VDC Max.	None	None	Yes	Yes	Yes
AD1048-15FS	+15VDC±10%	0A	3A	3A	150mVp-p	±1%	±1%	80%	20VDC Max.	None	None	Yes	Yes	Yes
AD1048-24FS	+24VDC±10%	0A	2A	2A	150mVp-p	±1%	±1%	83%	40VDC Max.	None	None	Yes	Yes	Yes

- NOTE:**
1. Each output can supply up to maximum current, but total loading can not exceed rated output wattage.
 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 230VAC input.
 4. Ripple & Noise is measured by using a 0.1uF/630V metalized capacitor & a 47uF electrolytic capacitor parallel on the test point, at rated load and 230VAC input.
 5. Efficiency is measured at rated load and 230VAC input.



INPUT

Input voltage100~240VAC/120~370VDC
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery

Dimensions:121(D)x110(H)x40(W)mm

AD1048F Series

Single output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD1040-05F	+5VDC $\pm$ 10%	0A 8A 8A	50mVp-p	$\pm$ 1%	$\pm$ 1%	78%	7VDC Max.	Option	None	Yes	None	None
AD1048-12F	+12VDC $\pm$ 10%	0A 4A 4A	100mVp-p	$\pm$ 1%	$\pm$ 1%	80%	17VDC Max.	Option	None	Yes	Yes	None
AD1048-24F	+24VDC $\pm$ 10%	0A 2A 2A	150mVp-p	$\pm$ 1%	$\pm$ 1%	83%	30VDC Max.	Option	None	Yes	Yes	None

AD1060F Series

Single output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD1060-24F	+24VDC $\pm$ 10%	0A 2.5A 2.5A	150mVp-p	$\pm$ 1%	$\pm$ 1%	83%	30VDC Max.	Option	None	None	None	None

AD2060F Series

Dual output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD20601F	+5VDC $\pm$ 10%	0A 4A 5A	60mVp-p	$\pm$ 2%	$\pm$ 2%	77%	7VDC Max.	None	None	None	None	None
	+12VDC -----	0A 3A 3A	150mVp-p	$\pm$ 6%	$\pm$ 6%		-----					
AD20602F	+5VDC $\pm$ 10%	0A 2A 5A	60mVp-p	$\pm$ 2%	$\pm$ 2%	80%	7VDC Max.	None	None	None	None	None
	+24VDC -----	0A 2A 2A	150mVp-p	$\pm$ 6%	$\pm$ 6%		-----					
AD20603F	+12VDC $\pm$ 10%	0A 2A 4A	100mVp-p	$\pm$ 2%	$\pm$ 2%	81%	17VDC Max.	None	200pcs	None	None	None
	+24VDC -----	0A 1.5A 2A	150mVp-p	$\pm$ 6%	$\pm$ 6%		-----					

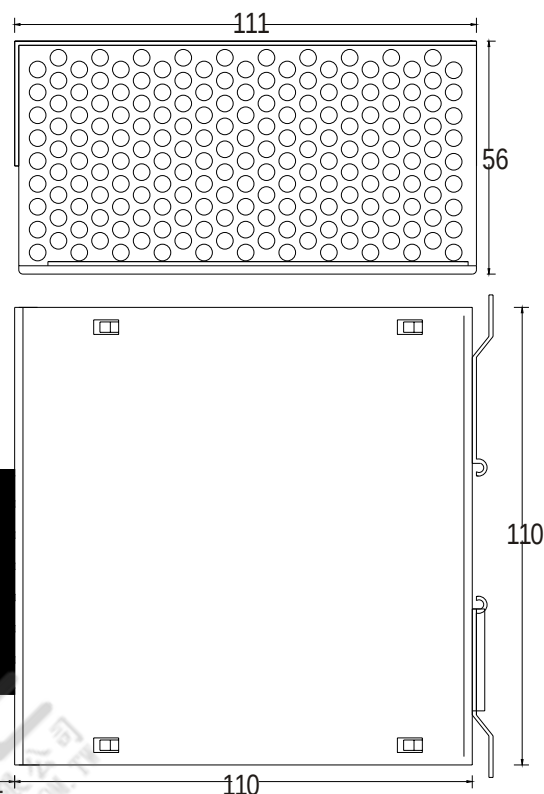
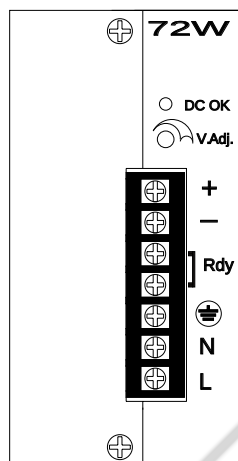


INPUT

Input voltage100~240VAC/120~370VDC
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery



Dimensions:121(D)x110(H)x56(W)mm

AD1072F Series

Single output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD1072-12F	+12VDC $\pm$ 10%	0A 6A 6A	100mVp-p	$\pm$ 1%	$\pm$ 1%	78%	17VDC Max.	Option	None	Yes	Yes	None
AD1072-24F	+24VDC $\pm$ 10%	0A 3A 3A	150mVp-p	$\pm$ 1%	$\pm$ 1%	81%	30VDC Max.	Option	None	Yes	Yes	None
AD1072-48F	+48VDC $\pm$ 10%	0A 1.5A 1.5A	250mVp-p	$\pm$ 1%	$\pm$ 1%	82%	56VDC Max.	Option	None	Yes	None	None

AD1100F Series

Single output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD1100-12F	+12VDC $\pm$ 10%	0A 8A 8A	100mVp-p	$\pm$ 1%	$\pm$ 1%	78%	17VDC Max.	Option	None	Yes	Yes	None
AD1100-24F	+24VDC $\pm$ 10%	0A 4A 4A	150mVp-p	$\pm$ 1%	$\pm$ 1%	81%	30VDC Max.	Option	None	Yes	Yes	None
AD1100-48F	+48VDC $\pm$ 10%	0A 2A 2A	250mVp-p	$\pm$ 1%	$\pm$ 1%	82%	56VDC Max.	Option	None	Yes	None	None

AD2100F Series

Dual output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD21001F	+12VDC $\pm$ 10%	0A 7A 7A	100mVp-p	$\pm$ 1%	$\pm$ 2%	77%	17VDC Max.	None	200pcs	None	None	None
	+5VDC -----	0A 3A 3A	60mVp-p	$\pm$ 2%	$\pm$ 2%		-----					
AD21002F	+24VDC $\pm$ 10%	0A 3.5A 3.5A	150mVp-p	$\pm$ 1%	$\pm$ 2%	80%	30VDC Max.	None	None	None	None	None
	+5VDC -----	0A 3A 3A	60mVp-p	$\pm$ 2%	$\pm$ 2%		-----					

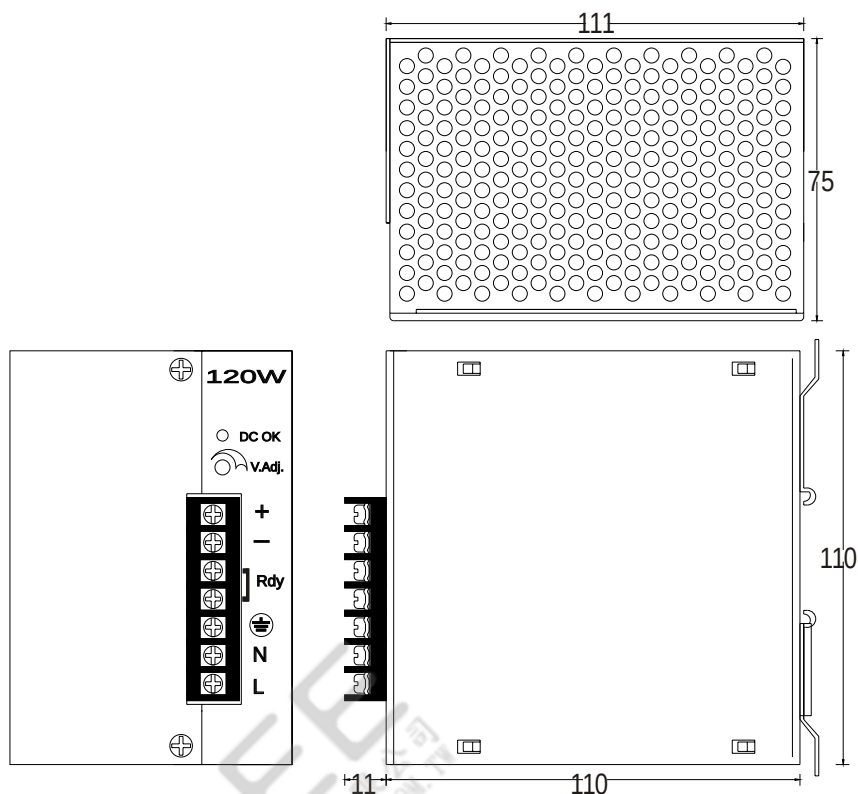


INPUT

Input voltage100~240VAC/120~370VDC
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery



Dimensions:121(D)x110(H)x75(W)mm

AD1120F Series

Single output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD1120-12F	+12VDC $\pm$ 10%	0A 10A 10A	100mVp-p	$\pm$ 1%	$\pm$ 1%	78%	17VDC Max.	Option	None	Yes	Yes	None
AD1120-24F	+24VDC $\pm$ 10%	0A 5A 5A	150mVp-p	$\pm$ 1%	$\pm$ 1%	81%	30VDC Max.	Option	None	Yes	Yes	None
AD1120-48F	+48VDC $\pm$ 10%	0A 2.5A 2.5A	250mVp-p	$\pm$ 1%	$\pm$ 1%	82%	56VDC Max.	Option	None	Yes	Yes	None

AD1150F Series

Single output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD1150-12F	+12VDC $\pm$ 10%	0A 12.5A 12.5A	100mVp-p	$\pm$ 1%	$\pm$ 1%	78%	17VDC Max.	Option	None	Yes	Yes	None
AD1150-24F	+24VDC $\pm$ 10%	0A 6.3A 6.3A	150mVp-p	$\pm$ 1%	$\pm$ 1%	81%	30VDC Max.	Option	None	Yes	Yes	None
AD1150-48F	+48VDC $\pm$ 10%	0A 3.2A 3.2A	250mVp-p	$\pm$ 1%	$\pm$ 1%	82%	56VDC Max.	Option	None	Yes	Yes	None

AD2150F Series

Dual output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD21501F	+12VDC $\pm$ 10%	0A 11A 11A	100mVp-p	$\pm$ 1%	$\pm$ 2%	78%	17VDC Max.	None	200pcs	None	None	None
	+5VDC -----	0A 3A 3A	60mVp-p	$\pm$ 2%	$\pm$ 2%		-----					
AD21502F	+24VDC $\pm$ 10%	0A 5.5A 5.5A	150mVp-p	$\pm$ 1%	$\pm$ 2%	80%	30VDC Max.	None	None	None	None	None
	+5VDC -----	0A 3A 3A	60mVp-p	$\pm$ 2%	$\pm$ 2%		-----					

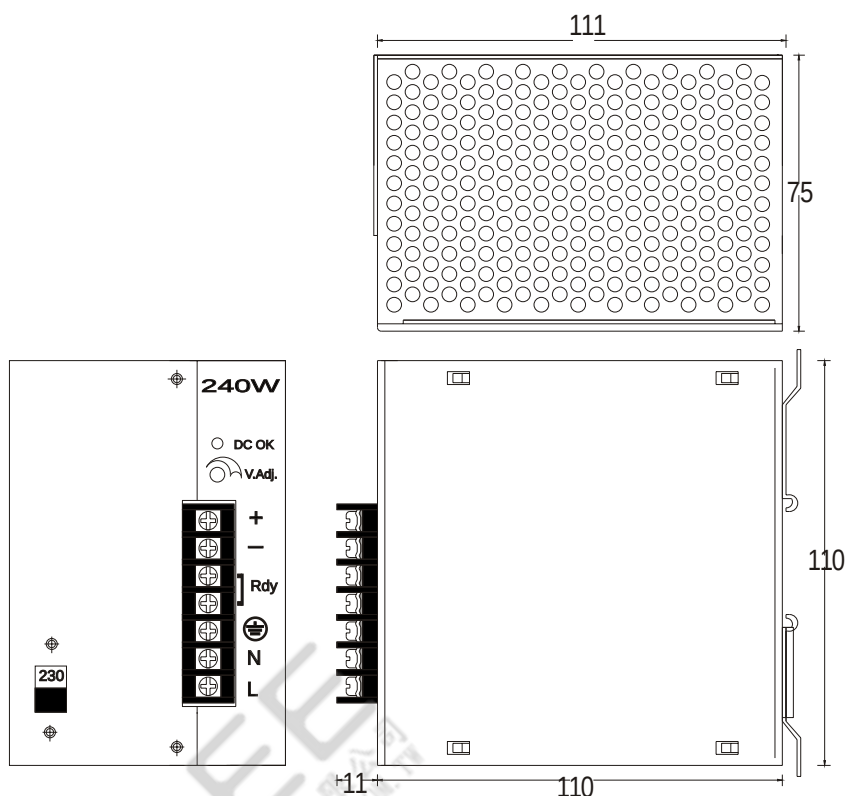


INPUT

Input voltage115/230VAC selectable
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery



Dimensions:121(D)x110(H)x75(W)mm

AD1240S Series

Single output

Model	O/P voltage Adjustment	Loading (A)			Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
		Min.	Rated	Max.										
AD1240-12S	+12VDC±10%	0A	20A	20A	100mVp-p	± 1%	± 1%	80%	17VDC Max.	Option	None	Yes	Yes	None
AD1240-24S	+24VDC±10%	0A	10A	10A	150mVp-p	± 1%	± 1%	82%	30VDC Max.	Option	None	Yes	Yes	None
AD1240-48S	+48VDC±10%	0A	5A	5A	250mVp-p	± 1%	± 1%	82%	56VDC Max.	Option	None	Yes	Yes	None

AD1360S Series

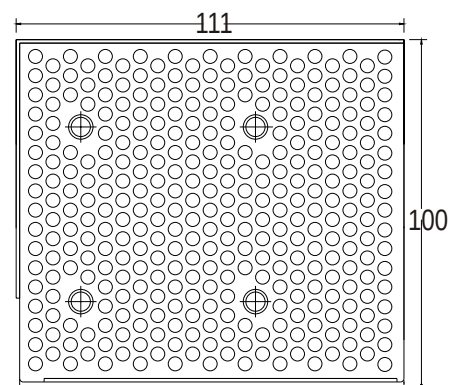
Single output

Model	O/P voltage Adjustment	Loading (A)			Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
		Min.	Rated	Max.										
AD1360-24S	+24VDC±10%	0A	15A	15A	100mVp-p	± 1%	± 1%	82%	30VDC Max.	Option	None	Yes	Yes	None

AD2240S Series

Dual output

Model	O/P voltage Adjustment	Loading (A)			Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
		Min.	Rated	Max.										
AD22402S	+24VDC ±10%	0A	9A	9A	150mVp-p	± 1%	± 2%	82%	30VDC Max.	None	200pcs	None	None	None
	+5VDC -----	0A	3A	3A	60mVp-p	± 2%	± 2%		-----					
AD22403S	+48VDC ±10%	0A	4.5A	4.5A	250mVp-p	± 1%	± 2%	82%	56VDC Max.	None	200pcs	None	None	None
	+5VDC -----	0A	3A	3A	60mVp-p	± 2%	± 2%		-----					

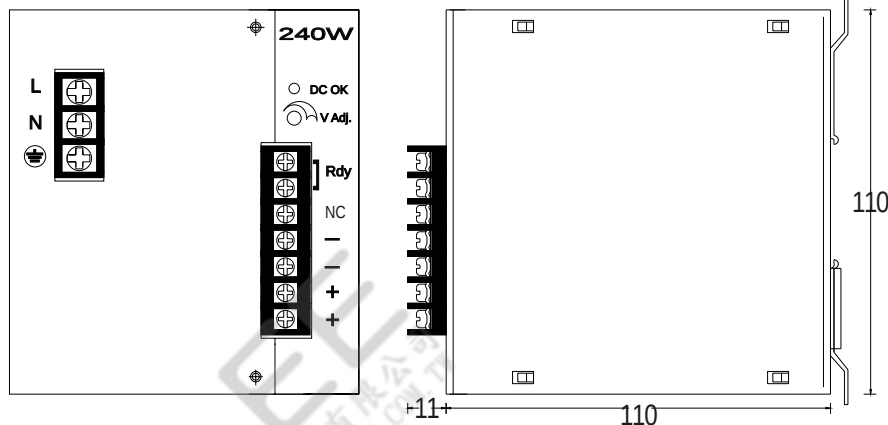


INPUT

Input voltage100~240VAC/120~370VDC
 Input frequency.....47~63Hz
 Inrush current22A/115VAC
 (Cold start) 44A/230VAC
 Active PFCPF>0.94

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
 Over voltage protectionAutorecovery
 Overload protectionPower limited
 Short circuit protectionAutorecovery



Dimensions:121(D)x110(H)x100(W)mm

AD1240C Series

Single output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD1240-12C	+12VDC±10%	0A 20A 20A	100mVp-p	± 1%	± 1%	80%	17VDC Max.	Option	None	Yes	Yes	None
AD1240-24C	+24VDC±10%	0A 10A 10A	150mVp-p	± 1%	± 1%	82%	30VDC Max.	Option	None	Yes	Yes	None
AD1240-48C	+48VDC±10%	0A 5A 5A	250mVp-p	± 1%	± 1%	82%	56VDC Max.	Option	None	Yes	Yes	None

AD1360C Series

Single output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD1360-12C	+12VDC±10%	0A 30A 30A	100mVp-p	± 1%	± 1%	80%	17VDC Max.	Option	None	Yes	Yes	None
AD1360-24C	+24VDC 10%	0A 15A 15A	150mVp-p	± 1%	± 1%	82%	30VDC Max.	Option	None	Yes	Yes	None
AD1360-48C	+48VDC 10%	0A 7.5A 7.5A	250mVp-p	± 1%	± 1%	82%	56VDC Max.	Option	None	Yes	Yes	None

AD2240C Series

Dual output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD22402C	+24VDC ±10%	0A 9A 9A	150mVp-p	± 1%	± 2%	82%	30VDC Max.	None	100pcs	None	None	None
	+5VDC -----	0A 3A 3A	60mVp-p	± 2%	± 2%		-----					
AD22403C	+48VDC ±10%	0A 4.5A 4.5A	250mVp-p	± 1%	± 2%	82%	56VDC Max.	None	100pcs	None	None	None
	+5VDC -----	0A 3A 3A	60mVp-p	± 2%	± 2%		-----					

AD2360C Series

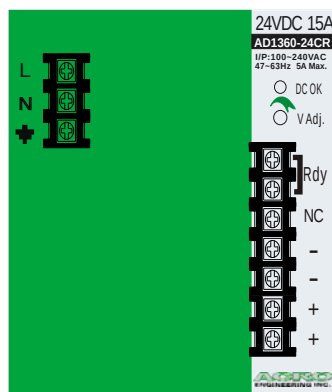
Dual output

Model	O/P voltage Adjustment	Loading (A) Min. Rated Max.	Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
AD23602C	+24VDC $\pm 10\%$	0A 14A 14A	150mVp-p	$\pm 1\%$	$\pm 2\%$	82%	30VDC Max.	None	100pcs	None	None	None
	+5VDC -----	0A 3A 3A	60mVp-p	$\pm 2\%$	$\pm 2\%$		-----					
AD23603C	+48VDC $\pm 10\%$	0A 7A 7A	250mVp-p	$\pm 1\%$	$\pm 2\%$	82%	56VDC Max.	None	100pcs	None	None	None
	+5VDC -----	0A 3A 3A	60mVp-p	$\pm 2\%$	$\pm 2\%$		-----					

Product description

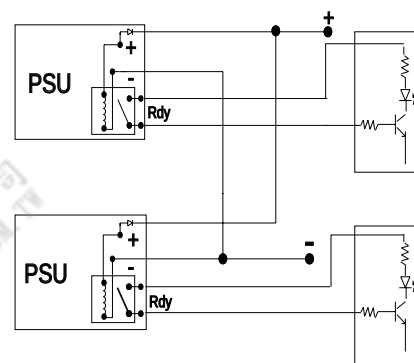
The DIN rail power supplies are designed to snap-on TS-35 DIN rail and wall bracket mounting. They are idea for use in control system, factory automation, industrial control, instrumentation, electromagnetic drivers and other DC load. The models are designed according to the latest requirement and standard that CE marking and RoHS compliance. Built-in dry contact rela and O-ring diode to offer Rdy (Alarm) signal and redundant application. Complete protection include over voltage, overload and short circuit to avoid damage.

Terminal allocation



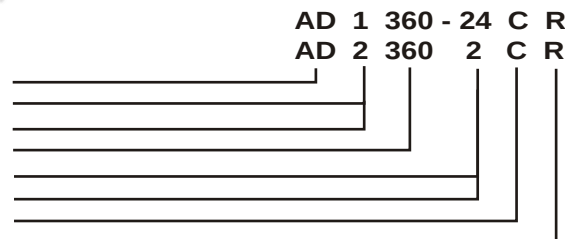
Designation	Description
DC OK	Green LED Indicator
V Adj.	O/P Voltage adjustment
NC	No connection
+	Output Positive
-	Output Negative
Rdy	DC OK signal (Short)
⏏	Earth
N	Input Neutral
L	Input Line

Rdy & Redundant connection



Model No. Description

Family	AD	(DIN rail)
Number of Output.....	1	(Single)
	2	(Dual)
Rated Output Wattage.....	360	(360W)
Rated Output Voltage.....	24	(24VDC)
Developing sequency.....	2	(2nd model)
Input Voltage Range.....	C	(100~240VAC)
Redundant & Rdy function.....	R	(with function)



Installation Instruction

1. Making sure wire connection of the designations before turn on AC source. The connector can withstand 8 lb-in torque maximum and use copper connectors only, 60/75°C and installation in Pollution Degree 2 environment. Max. surrounding air temperature 40°C.
2. Snap power unit on TS35 DIN rail, please remove upper mounting bracket and operate as Fig. 2. Using a "+" screw driver to pull down underside mounting bracket to release power unit from TS35 DIN rail.
3. The left housing of power unit is design as heatsink, please keep 15mm Min. for dissipating heating. (Fig. 1)
4. For mounting power unit by mounting bracket, please loosen screws on mounting bracket and pull both brackets outer. And then re-screw the mounting brackets to get easier operation of mounting on wall/plate. (Fig. 3)
5. Output voltage adjustable range is +/-10% of rated voltage, over +10% might cause over voltage protection, under 10% might cause output flicking at lower loading.

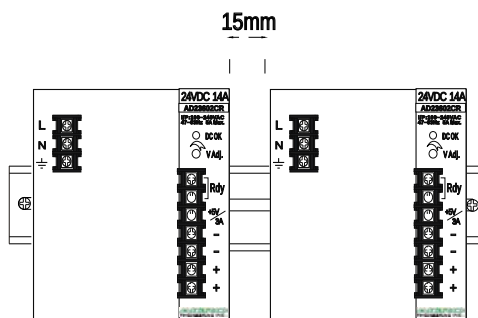


Fig. 1

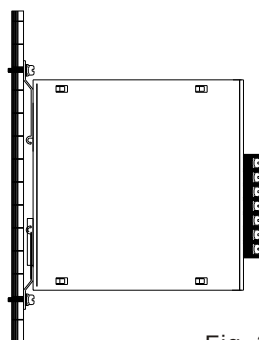


Fig. 3

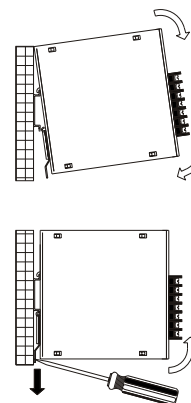
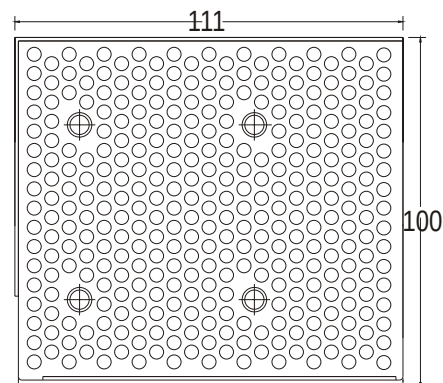


Fig. 2

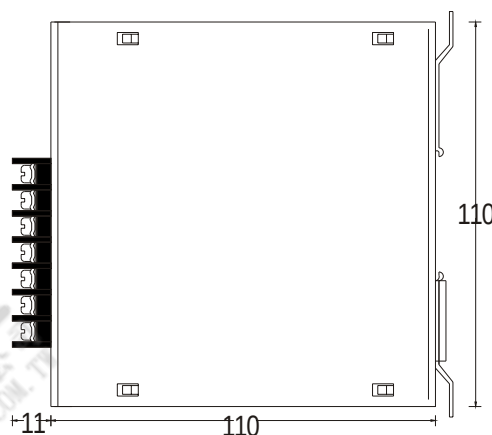
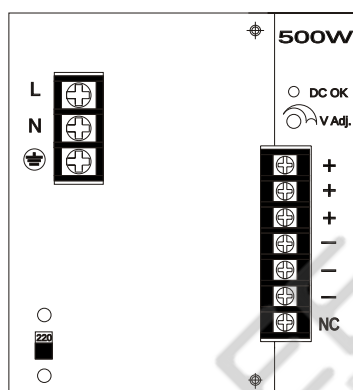


INPUT

Input voltage115/230VAC selectable
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery



Dimensions:121(D)x110(H)x100(W)mm

AD1500S Series

Single output

Model	O/P voltage Adjustment	Loading (A)			Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
		Min.	Rated	Max.										
AD1500-24S	+24VDC $\pm$ 10%	0A	21A	21A	150mVp-p	$\pm$ 1%	$\pm$ 1%	85%	30VDC Max.	Option	None	Yes	Yes	None
AD1500-48S	+48VDC $\pm$ 10%	0A	10.5A	10.5A	250mVp-p	$\pm$ 1%	$\pm$ 1%	85%	56VDC Max.	Option	None	Yes	Yes	None

AD2500S Series

Dual output

Model	O/P voltage Adjustment	Loading (A)			Ripple Noise	Line Reg.	Load Reg.	Eff.	O.V.P.	Redundant Function	MOQ	CB	UL	TUV
		Min.	Rated	Max.										
AD25002S	+24VDC $\pm$ 10%	0A	20A	20A	150mVp-p	$\pm$ 1%	$\pm$ 2%	85%	30VDC Max.	None	100pcs	None	None	None
	+5VDC -----	0A	3A	3A	60mVp-p	$\pm$ 2%	$\pm$ 2%		-----					
AD25003S	+48VDC $\pm$ 10%	0A	10A	10A	250mVp-p	$\pm$ 1%	$\pm$ 2%	85%	56VDC Max.	None	100pcs	None	None	None
	+5VDC -----	0A	3A	3A	60mVp-p	$\pm$ 2%	$\pm$ 2%		-----					

- NOTE:**
- Each output can supply up to maximum current, but total loading can not exceed rated output wattage.
 - Line regulation is measured from low line to high line at rated load.
 - Load regulation is measured from 20% to 100% of rated load at 230VAC input.
 - Ripple & Noise is measured by using a 0.1uF/630V metalized capacitor & a 47uF electrolytic capacitor parallel on the test point, at rated load and 230VAC input.
 - Efficiency is measured at rated load and 230VAC input.

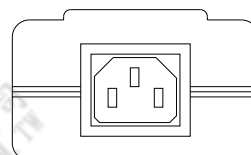
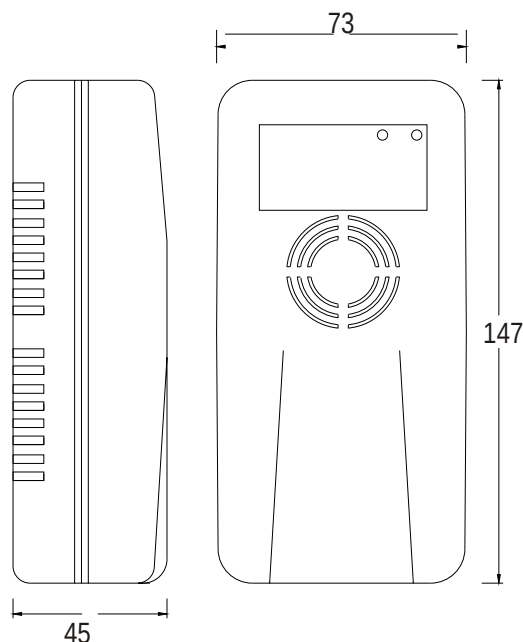


INPUT

Input voltage100~240VAC/120~370VDC
 Input frequency.....47~63Hz
 Inrush current22A/115VAC
 (Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
 Over voltage protectionAutorecovery
 Overload protectionPower limited
 Short circuit protectionAutorecovery
 Reverse polarity protectionAutorecovery



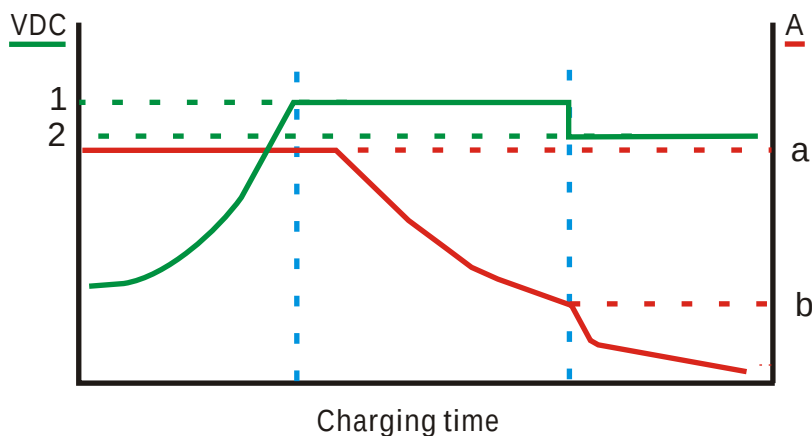
Dimensions:147(L)x73(W)x45(H)mm

AE1060CF Series

Model	Charging voltage Boost	Charging voltage Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	O.V.P.	MOQ	CB	UL	TUV
AE1060C-12F	+14.7VDC	+13.8VDC	5.0A Max.	± 1%	± 2%	83%	17VDC Max.	200pcs	None	None	None
AE1060C-24F	+29.4VDC	+27.6VDC	2.5A Max.	± 1%	± 2%	84%	35VDC Max.	200pcs	None	None	None

Charging curve

Type	12V	24V
Code		
a (A)	5	2.5
b (A)	0.6	0.6
1 (VDC)	14.7	29.4
2 (VDC)	13.8	27.6



Input : IEC320 C14 socket
 DC output : 1.2m, 18AWG x2 + alligator clip

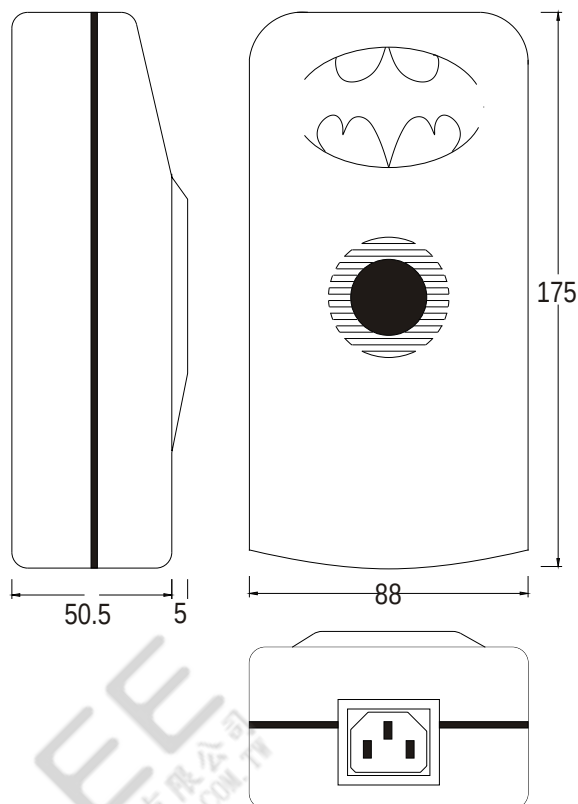


INPUT

Input voltage100~240VAC/120~370VDC
 Input frequency.....47~63Hz
 Inrush current22A/115VAC
 (Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
 Over voltage protectionAutorecovery
 Overload protectionPower limited
 Short circuit protectionAutorecovery
 Reverse polarity protectionAutorecovery
 Over temperature protectionShutdown



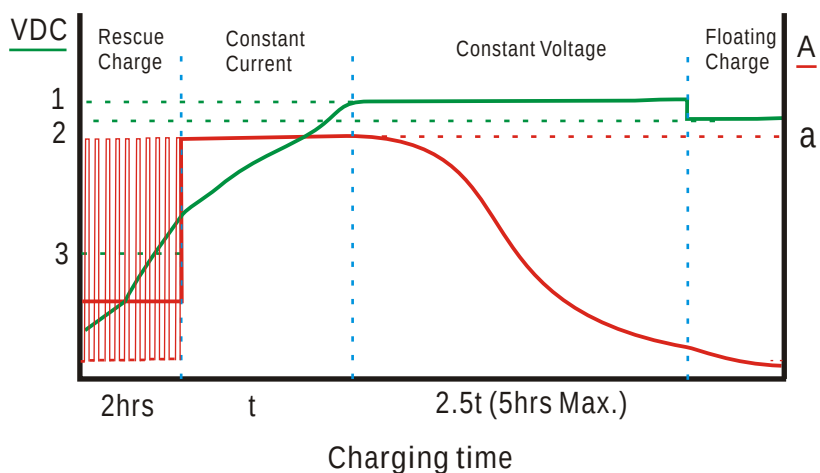
Dimensions:175(L)x88(W)x55.5(H)mm

AE1090CF Series

Model	Charging voltage Boost	Charging voltage Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	O.V.P.	MOQ	CB	UL	TUV
AE1090C-12F	+14.7VDC	+13.8VDC	7.5A Max.	± 1%	± 2%	83%	17VDC Max.	200pcs	None	None	None
AE1090C-24F	+29.4VDC	+27.6VDC	3.5A Max.	± 1%	± 2%	84%	35VDC Max.	200pcs	None	None	None
AE1090C-48F	+58.8VDC	+54.4VDC	1.8A Max.	± 1%	± 2%	84%	67VDC Max.	200pcs	None	None	None

Charging curve

Type	12V	24V	48V
Code			
a (A)	7.5	3.5	1.8
1 (VDC)	14.7	29.4	58.8
2 (VDC)	13.8	27.6	54.4
3 (VDC)	8	16	32



Input connection: IEC320 C14 socket
 DC output: 1.2m, 16AWG x2 + alligator clip

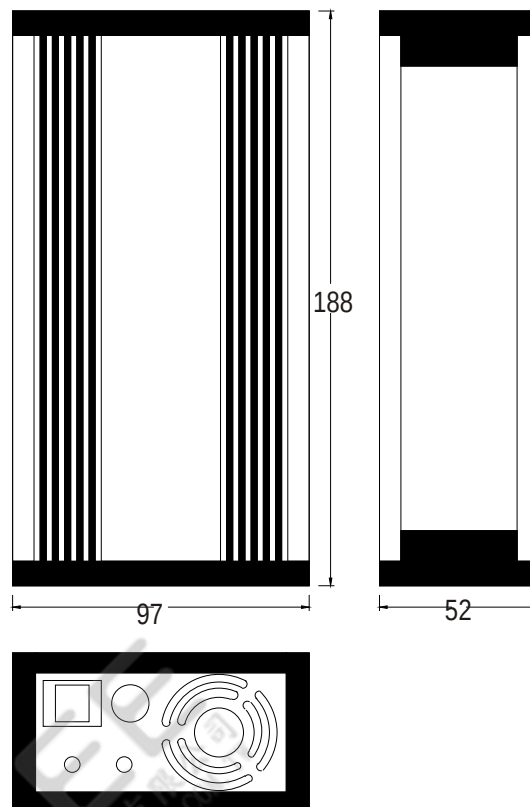


INPUT

Input voltage100~240VAC/120~370VDC
 Input frequency.....47~63Hz
 Inrush current22A/115VAC
 (Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
 Over voltage protectionAutorecovery
 Overload protectionPower limited
 Short circuit protectionAutorecovery
 Reverse polarity protectionAutorecovery



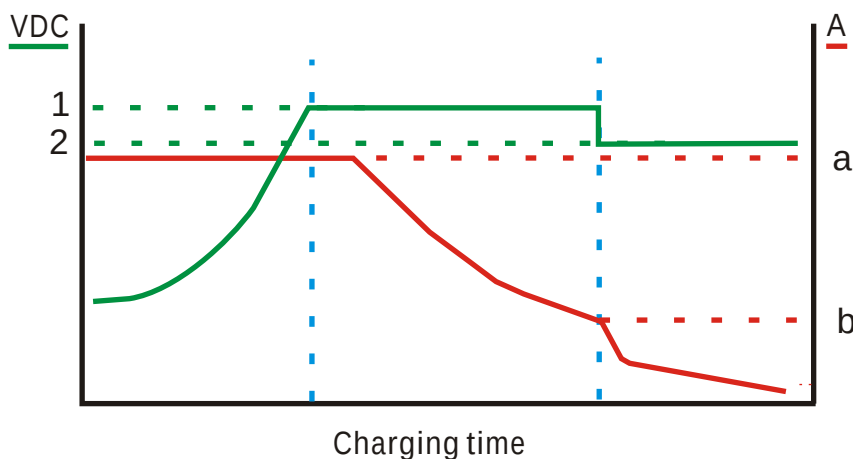
Dimensions:188(L)x97(W)x52(H)mm

AE1150CFA Series

Model	Charging voltage Boost	Charging voltage Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	O.V.P.	MOQ	CB	UL	TUV
AE1150C-12FA	+14.7VDC	+13.8VDC	12.5A Max.	± 1%	± 2%	83%	17VDC Max.	200pcs	None	None	None
AE1150C-24FA	+29.4VDC	+27.6VDC	6.5A Max.	± 1%	± 2%	84%	35VDC Max.	200pcs	None	None	None
AE1150C-48FA	+58.8VDC	+55.2VDC	3.2A Max.	± 1%	± 2%	84%	67VDC Max.	200pcs	None	None	None

Charging curve

Type	12V	24V	48V
a (A)	12.5	6.5	3.2
b (A)	0.6	0.6	0.6
1 (VDC)	14.7	29.4	58.8
2 (VDC)	13.8	27.6	55.2



Input : IEC320 C14 socket

DC output : 1.2m, 16AWG x2 + alligator clip

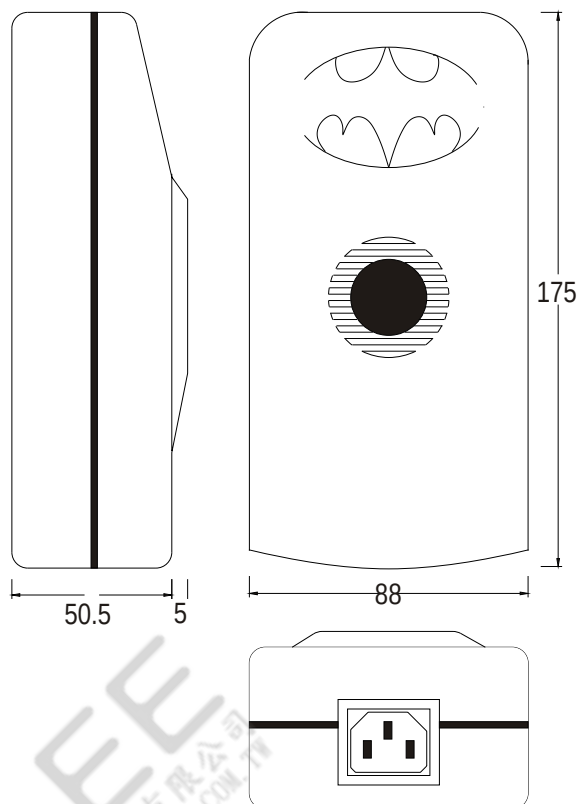


INPUT

Input voltage100~240VAC/120~370VDC
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery
Reverse polarity protectionAutorecovery
Over temperature protectionShutdown



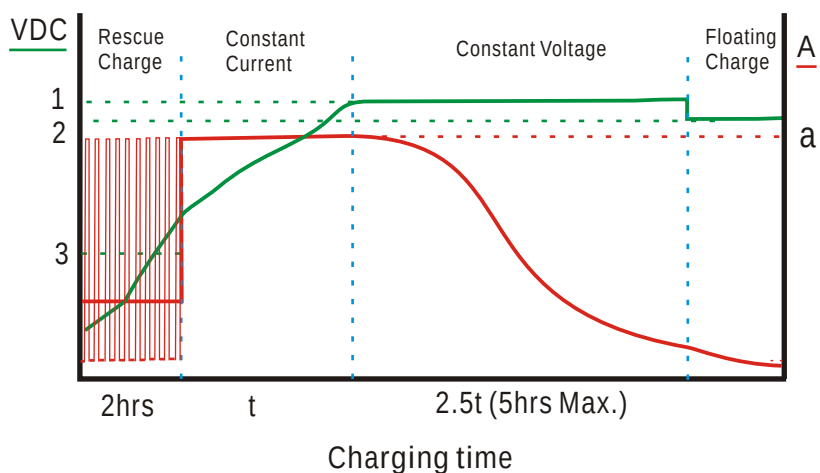
Dimensions:175(L)x88(W)x55.5(H)mm

AE1150CFC Series

Model	Charging voltage Boost	Charging voltage Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	O.V.P.	MOQ	CB	UL	TUV
AE1150C-12FB	+14.7VDC	+13.8VDC	12.5A Max.	± 1%	± 2%	83%	17VDC Max.	200pcs	None	None	None
AE1150C-24FB	+29.4VDC	+27.6VDC	6.5A Max.	± 1%	± 2%	84%	35VDC Max.	200pcs	None	None	None
AE1150C-48FB	+58.8VDC	+54.4VDC	3.2A Max.	± 1%	± 2%	84%	67VDC Max.	200pcs	None	None	None

Charging curve

Type	12V	24V	48V
Code			
a (A)	12.5	6.5	3.2
1 (VDC)	14.7	29.4	58.8
2 (VDC)	13.8	27.6	54.4
3 (VDC)	8	16	32



Input connection: IEC320 C14 socket
DC output: 1.2m, 16AWG x2 + alligator clip

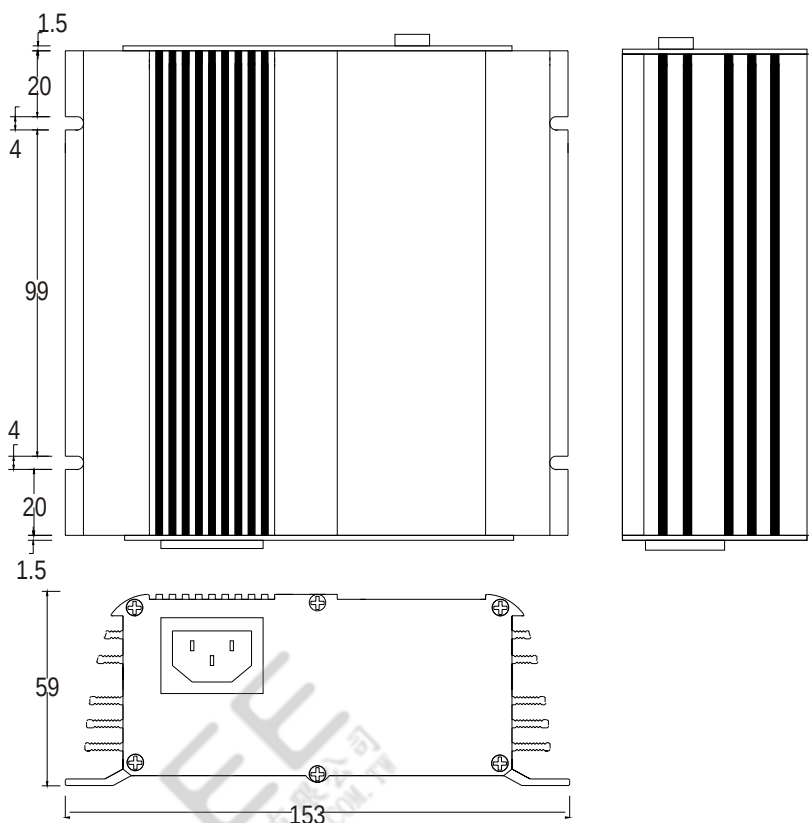


INPUT

Input voltage100~240VAC/120~370VDC
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery
Reverse Polarity protectionAutorecovery
Over temperature protectionPower limited

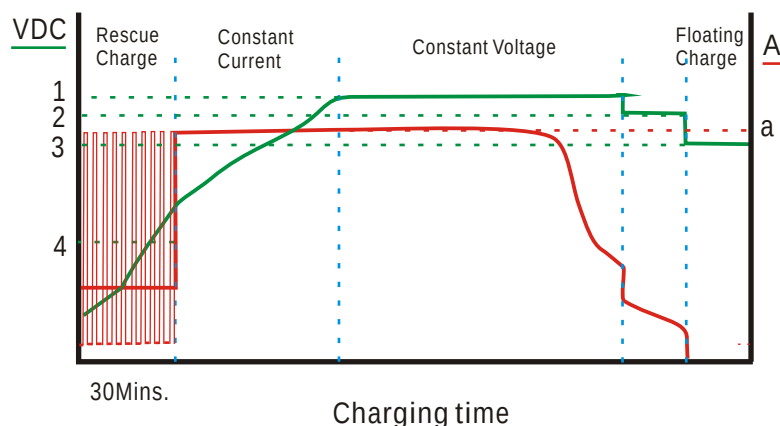


EPS 150W Series

Model	Charging voltage Boost	Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	O.V.P.	MOQ	CB	UL	TUV
EPS 1210	+14.7VDC	+13.8VDC	10.0A Max.	± 1%	± 2%	83%	17VDC Max.	200pcs	None	None	None
EPS 2405	+29.4VDC	+27.6VDC	5.0A Max.	± 1%	± 2%	84%	35VDC Max.	200pcs	None	None	None

Charging curve

Type	12V	24V
Code		
a (A)	10.0	5.0
1 (VDC)	14.7	29.4
2 (VDC)	13.8	27.6
3 (VDC)	8.0	16.0



Input connection: IEC320 C14 socket
DC output: 1.2m, 16AWG x2 + alligator clip

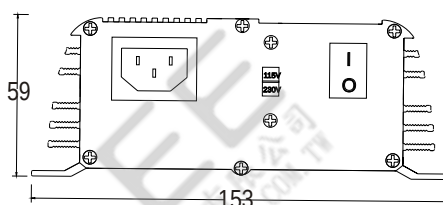
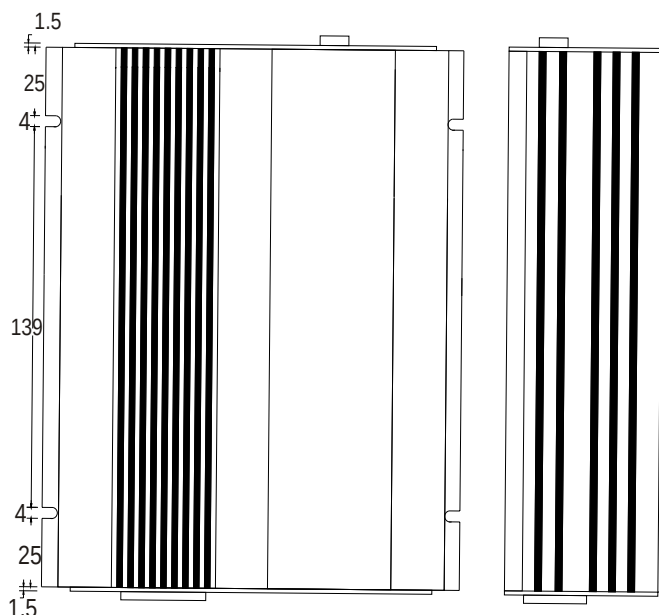


INPUT

Input voltage115/230VAC selectable
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery
Reverse Polarity protectionAutorecovery
Over temperature protectionPower limited



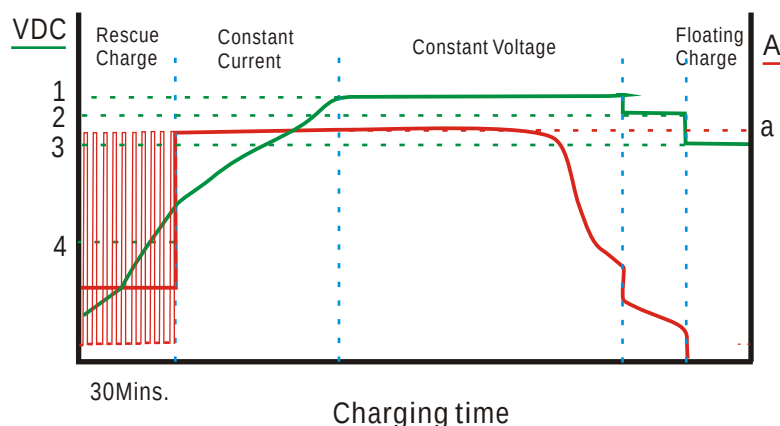
Dimensions:200(L)x153(W)x59(H)mm

EPS 240W Series

Model	Charging voltage Boost	Charging voltage Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	O.V.P.	MOQ	CB	UL	TUV
EPS 1220	+14.7VDC	+13.8VDC	20A Max.	±1%	±2%	84%	17VDC Max.	200pcs	None	None	None
EPS 2410	+29.4VDC	+27.6VDC	10A Max.	±1%	±2%	86%	35VDC Max.	200pcs	None	None	None

Charging curve

Type	12V	24V
Code		
a (A)	20.0	10.0
1 (VDC)	14.7	29.4
2 (VDC)	13.8	27.6
3 (VDC)	8.0	16.0



Input connection: IEC320 C14 socket
DC output: 1.2m, 14AWG x2 + alligator clip

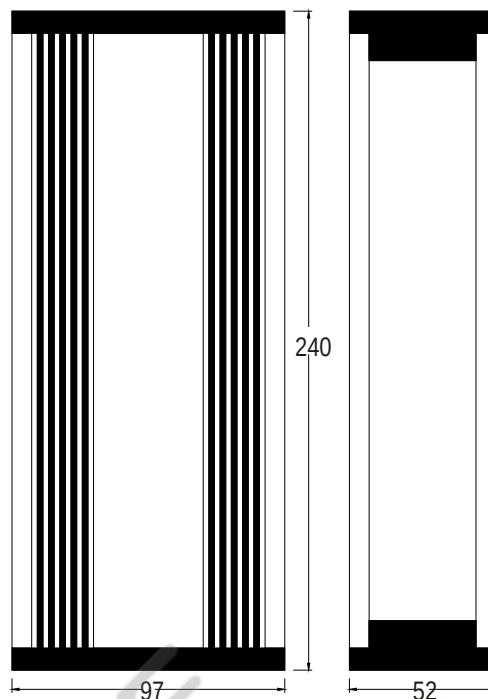


INPUT

Input voltage115/230VAC selectable
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery
Reverse polarity protectionAutorecovery



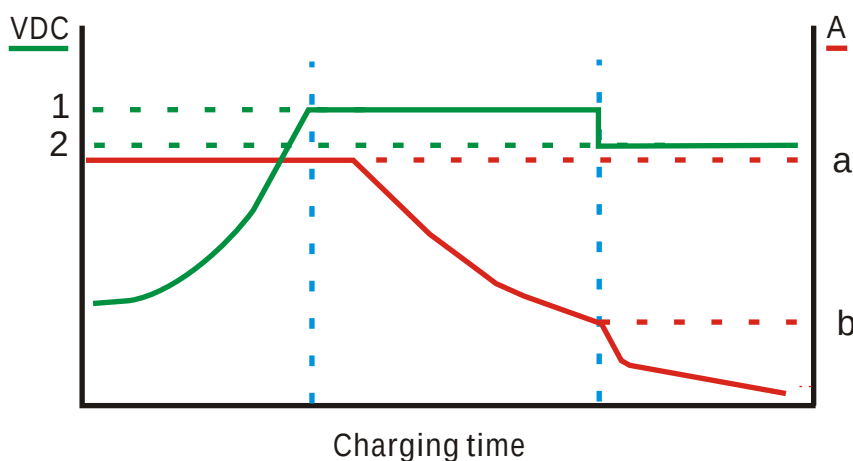
Dimensions:240(L)x97(W)x52(H)mm

AE1300CS Series

Model	Charging voltage Boost	Charging voltage Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	O.V.P.	MOQ	CB	UL	TUV
AE1300C-12S	+14.7VDC	+13.8VDC	25A Max.	± 1%	± 2%	83%	17VDC Max.	200pcs	None	None	None
AE1300C-24S	+29.4VDC	+27.6VDC	12.5A Max.	± 1%	± 2%	84%	35VDC Max.	200pcs	None	None	None
AE1300C-48S	+58.8VDC	+55.2VDC	6.3A Max.	± 1%	± 2%	84%	67VDC Max.	200pcs	None	None	None

Charging curve

Type	12V	24V	48V
a (A)	25	12.5	6.3
b (A)	0.6	0.6	0.6
1 (VDC)	14.7	29.4	55.8
2 (VDC)	13.8	27.6	55.2



Input : IEC320 C14 socket
DC output : 1.2m, 14AWG x2 + alligator clip

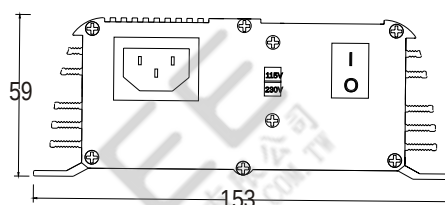
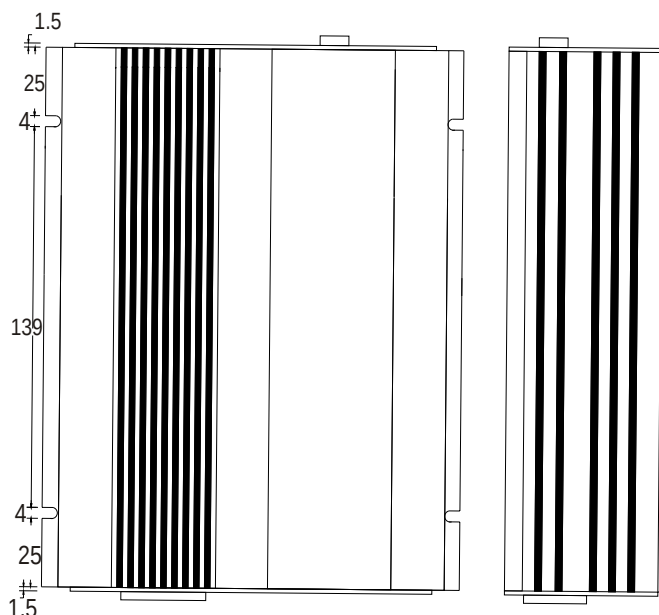


INPUT

Input voltage115/230VAC selectable
Input frequency.....47~63Hz
Inrush current22A/115VAC
(Cold start) 44A/230VAC

OUTPUT

Hold-up time (Full load@230VAC)20mS Min.
Over voltage protectionAutorecovery
Overload protectionPower limited
Short circuit protectionAutorecovery
Reverse Polarity protectionAutorecovery
Over temperature protectionPower limited



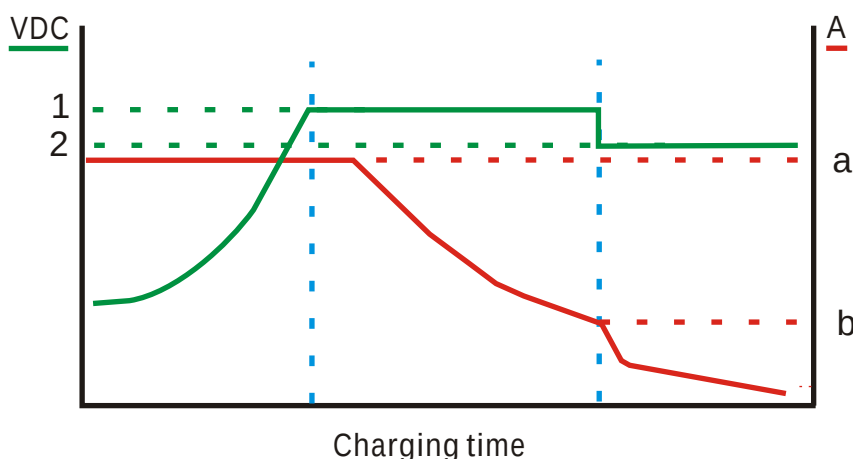
Dimensions:200(L)x153(W)x59(H)mm

AE1360CS Series

Model	Charging voltage Boost	Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	O.V.P.	MOQ	CB	UL	TUV
AE1360C-12S	+14.7VDC	+13.8VDC	30A Max.	± 1%	± 2%	83%	17VDC Max.	200pcs	None	None	None
AE1360C-24S	+29.4VDC	+27.6VDC	15A Max.	± 1%	± 2%	84%	35VDC Max.	200pcs	None	None	None
AE1360C-48S	+58.8VDC	+55.2VDC	7.5A Max.	± 1%	± 2%	84%	67VDC Max.	200pcs	None	None	None

Charging curve

Type	12V	24V	48V
a (A)	30	15	7.5
b (A)	0.6	0.6	0.6
1 (VDC)	14.7	29.4	55.8
2 (VDC)	13.8	27.6	55.2



Input : IEC320 C14 socket

DC output : 1.2m, 14AWG x2 + alligator clip

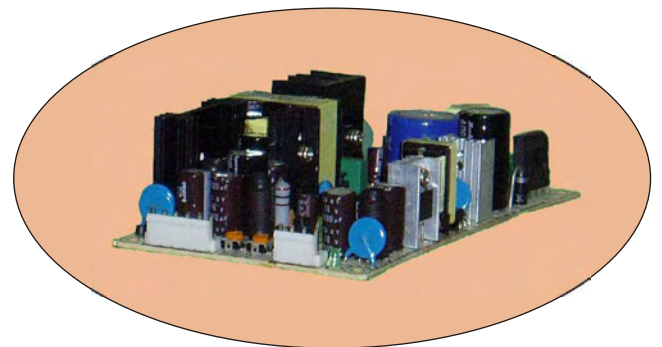
LED Application



Back-up Power Supply



LCD Application



Battery Charger

