

Наличие и актуальные цены на

# **LAD-360D**

https://www.mean-well.ru/store/LAD-360D/





























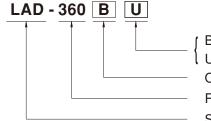
## ■ Features

- · Built-in battery charger and UPS function
- TTL signals for status detection:
   AC OK, Battery disconnect, Battery reverse polarity, Battery low,
   Battery full and Discharge (Blank version only)
- · UART Communication (U version only)
- Built-in buzzer alarm (U version only)
- Built-in AC and battery circuit ON/OFF switchs enhance safetyness during maintenance
- · Forced UPS mode for battery maintenance
- Protections: Short circuit / Overload / Over voltage /
   Over temperature / Battery low voltage /
   Battery reverse polarity (No damage)
- -20 ~ +60°C wide operating temperature
- Output voltage adjustable (-20%~+5%) for CH1 by VR
- · Suitable for lead acid and lithium-ion batteries
- Design refer to GB17945/GB4717(U version only) system requirement
- 1U low profile (30 mm)
- · 3 years warranty

# **■** Description

LAD-360 series is a 360W economical AC/DC low profile security power supply with UPS function. Adopting the input range from 90Vac to 264Vac (115Vac/230Vac selectable by switch) and supports output 27.6V, 41.5V and 55.2Vdc. With high efficiency up to 86.5% and built-in AC, battery switch for easy maintenance. In addition, LAD-360 series not only provide TTL signals for AC OK, battery disconnect, battery reverse polarity (No damage), battery low detection, battery full and discharge, but also possess UART version so the users can monitor and control the status of the units, that enhance easy way for integration into security and fire systems directly.

# **■** Model Encoding



Blank: TTL signal only

U: UART Communication only

Output voltage(B: 27.6V, C: 41.5V, D: 55.2V)

Rated wattage Series name

# Applications

- Fire emergency and evacuation system
- Public safety battery back-up
- Security system
- Uninterruptible DC-UPS system
- · Central monitoring system
- Industrial automation

## ■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx



# SPECIFICATION FOR TTL FUNCTION MODEL (Blank Version)

MODEL		LAD-360B		LAD-360C		LAD-360D		
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2	
	DC VOLTAGE	27.6V	27.6V	41.5V	41.5V	55.2V	55.2V	
	RATED CURRENT		-	-				
		11.5A	1.5A(Battery Charger		1.5A(Battery Charger)		1.5A(Battery Charg	
	CURRENT RANGE	0 ~ 13A		0 ~ 8.64A		0 ~ 6.53A		
UTPUT	RATED POWER	358.8W	I	358.56W		360.46W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p		240mVp-p		240mVp-p		
	VOLTAGE ADJ. RANGE	CH1: 21.6 ~ 29V		CH1: 32.4 ~ 43.5V	1	CH1: 43.5 ~ 58V		
	VOLTAGE TOLERANCE Note.3	±1.0%		±1.0%		±0.5%		
	LINE REGULATION	±0.5%		±0.5%		±0.5%		
	LOAD REGULATION	±0.5%		±0.5%		±0.5%		
	SETUP, RISE TIME	2000ms, 50ms/230V/	AC 2000ms. 50m	s/115VAC at full loa	ad			
	HOLD UP TIME (Typ.)	·	12ms/115VAC at full lo					
	BATTERY STATIC DISCHARGE		12110/110 7/10 01/101/10	uu				
	CURRENT	<100µA						
	VOLTAGE RANGE	90 ~ 132VAC / 180 ~	264VAC by switch	240 ~ 370VDC	(Default switch at 230VA	iC)		
	FREQUENCY RANGE	47 ~ 63Hz	•			,		
NPUT	EFFICIENCY (Typ.)	86%		86.5%		86.5%		
	AC CURRENT (Typ.)		/230VAC	00.5 /0		00.5 //		
	INRUSH CURRENT (Typ.)			44.0				
	, , , ,	COLD START 60A/1	15VAC 60A/230\	/AC				
	LEAKAGE CURRENT	<0.5mA / 240VAC						
		CH1:105 ~ 135%	CH2:90 ~ 110%					
		Protection type : CH	1 OLP, CH2 with batter	•	er to UPS mode when CH			
	OVERLOAD				it of CH1 + CH2 reach arc		utput shuts down	
			,	, ,	voltage,re-power on to re			
		CH2		•	n does not affect CH1 wo	•	•	
ROTECTION			condition is remove		mandatory in series conn		or protection)	
	OVER VOLTAGE	CH1:31 ~ 36V CH1:47 ~ 55V CH1:59 ~ 69V						
	OVER VOLINGE	Protection type : Shu	t down o/p voltage, re	-power on to remov	ed			
	OVER TEMPERATURE	Protection type : Shu	t down o/p voltage, re	-power on to remov	ed			
	BATTERY REVERSE POLARITY	Protected when reve	rse polarity , no dama	ge, recovers automa	atically after fault condition	on is removed		
	BATTERY CUTOFF	21.5V±0.5V		32V±0.5V	•	43V±0.5V		
	AC OK	TTL signal, High / Open : AC Fail ; Low : AC OK ; Ice : max. 30mA@ 50VDC						
	BATTERY DISCONNECT/							
	REVERSE POLARITY	TTL signal, High / Open : Battery connect/normal ; Low : Battery disconnect/reverse polarity; Ice : max. 30mA@ 50VDC						
UNCTION	BATTERY LOW	TTL signal, High / Open : Battery normal ; Low : Battery low; Ice : max. 30mA@ 50VDC						
	BATTERY FULL	TTL signal, High / Open : Battery charging ; Low : Battery full ; Ice : max. 30mA@ 50VDC						
	DISCHARGE		, , ,					
	WORKING TEMP.	TTL signal, High / Open : Charge ; Low : Discharge ; Ice : max. 30mA@ 50VDC  -20 ~ +60°C (Refer to "Derating Curve")						
		`	<u> </u>					
	WORKING HUMIDITY	20 ~ 95% RH non-co						
NVIRONMENT	STORAGE TEMP., HUMIDITY		% RH non-condensing	9				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C	,					
	VIBRATION	10 ~ 500Hz, 5G 10m	in./1cycle, 60min. eac	h along X, Y, Z axes				
	SAFETY STANDARDS	UL62368-1, BS EN/E	N62368-1, AS/NZS62	2368.1, EAC TP TC	004 approved; Design ref	fer to GB 17945-201	0	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/F	P-FG:2KVAC O/P-FG	G:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-	FG:100M Ohms / 500	VDC / 25°C/ 70% R	Н			
		Parameter	Standard		Test Level / Note			
		Conducted	BS EN/EN5503	32 (CISPR32),	Class A			
		Conducted	EAC TP TC 02	, ,,	Class A			
SAFETY &	EMC EMISSION	Radiated	BS EN/EN5503		Class A	-		
MC		uuiusou	EAC TP TC 02	0	JIA33 A			
Note 4 & 5)		Harmonic Current						
,		Voltage Flicker						
		Parameter	Standard		Test Level / Note			
		ESD	BS EN/EN610	00-4-2	Level 3, 8KV air ; Level	I 2, 6KV contact; cri	teria A	
		Radiated	BS EN/EN610		Level 3, 10V/m; criteria			
		EFT / Burst	BS EN/EN610		Level 3, 2KV ; criteria A			
	EMC IMMUNITY	Surge	BS EN/EN610		Level 3, 1KV/Line-Line		ria Δ	
							пал	
		Conducted	BS EN/EN610		Level 3, 10V; criteria A			
		Magnetic Field	BS EN/EN610		Level 4, 30A/m; criteria			
	MTBF	1394.9K hrs min.	Telcordia SR-332 (Bel	lcore); 153.3K hr	s min. MIL-HDBK-217	F (25°C)		
THERS	DIMENSION	215*115*30mm (L*W*H)						
	PACKING	0.75Kg; 15pcs/12.25	Kg/0.7CUFT					
		ially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  June 1 at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 \( \mu\) F & 47 \( \mu\) F parallel capacitor.						
					minated with a 0.1 $\mu$ F $\delta$	$\&47~\mu$ F parallel ca	pacitor.	
		o tolerance, line regulation and load regulation.  dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on						
	a 360mm*360mm metal pla	ate with 1mm of thickr	ness. Radiation testin	g requires adding 1	13*26*30NIZN magnetic	loops or buckles to	the battery output w	
	The final equipment must b	late with 1mm of thickness. Radiation testing requires adding 13*26*30NIZN magnetic loops or buckles to the battery output wire be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to						
	"EMI testing of component 5. This power supply does not						er sunnly	
ОТЕ	5. This power supply does not under the following condition		orrent requirements (	Juliilled by BS EN/	LINUTUUU-3-Z. Please do	o not use tris powe	a suppiy	
•	a) the end-devices is used	within the European						
	b) the end-devices is conn c) the power supply is: - i							
		usianeu in end-device	s with average of co	nunuous indut dow	er greater than 7500, Of			

- belong to part of a lighting system

- Power supplies used within the following end-devices do not need to fulfill BS EN/EN61000-3-2
- a) professional equipment with a total rated input power greater than 1000W; b) symmetrically controlled heating elements with a rated power less than or equal to 200W 6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- % Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



#### SPECIFICATION FOR UART COMMUNICATION FUNCTION MODEL (U Version)

MODEL		LAD-360BU		LAD-360CU		LAD-360DU	
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2
	DC VOLTAGE	27.6V	27.6V	41.5V	41.5V	55.2V	55.2V
	RATED CURRENT	11.5A	1.5A(Battery Charger)	7.14A	1.5A(Battery Charger)	5.03A	1.5A(Battery Charg
	CURRENT RANGE	0 ~ 13A		0 ~ 8.64A		0 ~ 6.53A	
	RATED POWER	358.8W		358.56W		360.46W	
	RIPPLE & NOISE (max.) Note.2			240mVp-p		240mVp-p	
DUTPUT	VOLTAGE ADJ. RANGE	CH1: 21.6 ~ 29V		CH1: 32.4 ~ 43.5\		CH1: 43.5 ~ 58V	
	VOLTAGE TOLERANCE Note.3	=,0		±1.0%		±0.5%	
	LINE REGULATION	±0.5%		±0.5%		±0.5%	
	LOAD REGULATION	±0.5%		±0.5%		±0.5%	
	SETUP, RISE TIME	2000ms, 50ms/230VAC 2000ms, 50ms/115VAC at full load					
	HOLD UP TIME (Typ.)	16ms/230VAC	12ms/115VAC at full lo	ad			
	BATTERY STATIC DISCHARGE	<100µA					
	CURRENT		004)/40 h	040 070\/D0	/D - f t t -  - + 000\/A	0)	
	VOLTAGE RANGE	90 ~ 132VAC / 180 ~	264VAC by switch	240 ~ 370VDC	(Default switch at 230VA	(C)	
	FREQUENCY RANGE	47 ~ 63Hz	17 ~ 63Hz				
NPUT	EFFICIENCY (Typ.)	86%		86.5%		86.5%	
	AC CURRENT (Typ.)	8A/115VAC 4A	/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 60A/1	115VAC 60A/230\	/AC			
	LEAKAGE CURRENT	<0.5mA / 240VAC					
		CH1:105 ~ 135%	CH2:90 ~ 110%				
		Protection type : CH	1 OLP, CH2 with batter	y: The unit will ente	er to UPS mode when CH	1 is around 105%	-120%,
	OVERLOAD			when total outpo	ut of CH1 + CH2 reach ard	ound 125%~135%	output shuts down
	OVERLOAD	CH <sup>2</sup>	1 OLP, CH2 without ba	ttery:Shut down o/p	o voltage,re-power on to r	emoved	
		CH2	2 : Constant current lin	niting; fault condition	on does not affect CH1 wo	rking,recovers au	tomatically after fault
PROTECTION			condition is remove	ed (External fuse is	mandatory in series conn	ection with batter	/ for protection)
ROTECTION		CH1:31 ~ 36V		CH1:47 ~ 55V		CH1:59 ~ 69V	
	OVER VOLTAGE	Protection type : Shu	it down o/p voltage, re	-power on to remov	red	1	
	OVER TEMPERATURE	Protection type : Shu	it down o/p voltage, re	-power on to remov	red		
	BATTERY REVERSE POLARITY						
	BATTERY CUTOFF	21.5V±0.5V	roo polarity , no damay	32V±0.5V	•		
	BATTERT COTOLT		als AC failure and activ		Itana <75VAC	73V±0.3V	
			ver the main power su	•	-		
	AC OK		als AC failure and activ		•		
UNCTION				•	•		
ONCTION	OLIA DOED OLDOLUT EALI	Recover the main power supply when input voltage >175VAC					
	CHARGER CIRCUIT FAIL	Battery disconnected, battery reverse polarity , signal failure  Battery low( fire alarm system selectable by UART)					
	BUZZER ALARM	, ,		• /	nect, overload status (ev	acuation systems	electable by LIART)
	WORKING TEMP	-20 ~ +60°C (Refer to		battery reverse cor	incot, overload status (evi	acadion system s	cicolabic by oract
	WORKING TEMP.	,	<u> </u>				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	,	% RH non-condensing	9			
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes					
	SAFETY STANDARDS	UL62368-1, BS EN/EN62368-1, AS/NZS62368.1, EAC TP TC 004 approved; Design refer to GB 17945-2010, GB4717					0, GB4717
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/F	P-FG:2KVAC O/P-F0	G:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-	-FG:100M Ohms / 500	VDC / 25°C/ 70% F	RH		
		Parameter	Standard		Test Level / Note		
		O - m diverte d	BS EN/EN5503	32 (CISPR32).			
		Conducted	EAC TP TC 02		Class A		
SAFETY &	EMC EMISSION	Radiated	BS EN/EN5503	32 (CISPR32),	Class A		
		Nauialeu	EAC TP TC 02	0	Class A		
EMC Note 4 & 5)		Harmonic Current					
1010 4 4 5)		Voltage Flicker					
		Parameter	Standard		Test Level / Note		
		ESD	BS EN/EN610	n-4-2	Level 3, 8KV air ; Level	2 6KV contact: cr	iteria Δ
		Radiated	BS EN/EN6100		Level 3, 10V/m; criteria		itoria / t
	EMC IMMUNITY	EFT / Burst	BS EN/EN6100		Level 3, 2KV ; criteria A		
		Surge	BS EN/EN6100		Level 3, 1KV/Line-Line		епа А
		Conducted	BS EN/EN610		Level 3, 10V; criteria A		
		Magnetic Field	BS EN/EN610	00-4-8	Level 4, 30A/m; criteria	ı A	
MTBF 1160.5K hrs min. Telcordia SR-332 (Bellcore); 126.5K hrs min. MIL-HDBK-217F (25°C)			F (25°C)				
		215*115*30mm (L*W*H)					
OTHERS	DIMENSION	215*115*30mm (L*W	/*H)				
OTHERS	DIMENSION PACKING	215*115*30mm (L*W 0.75Kg; 15pcs/12.25	,				

3. Tolerance : includes set up tolerance, line regulation and load regulation.

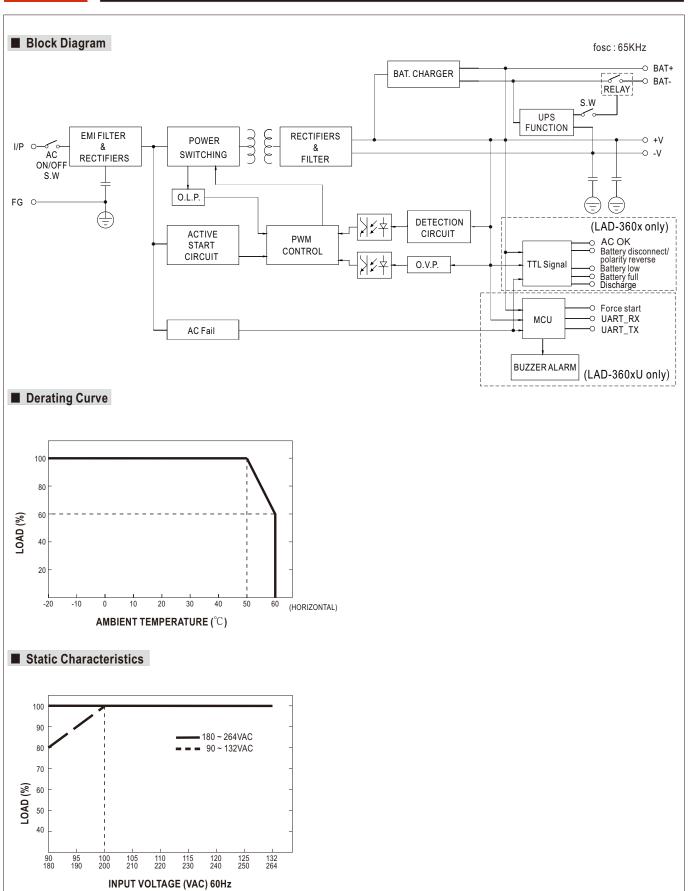
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
  4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm\*360mm metal plate with 1mm of thickness. Radiation testing requires adding 13\*26\*30NIZN magnetic loops or buckles to the battery output wire. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 5. This power supply does not meet the harmonic current requirements outlined by BS EN/EN61000-3-2. Please do not use this power supply under the following conditions:

NOTE

- a) the end-devices is used within the European Union, and
  b) the end-devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and
  c) the power supply is: installed in end-devices with average or continuous input power greater than 75W, or - belong to part of a lighting system

- Power supplies used within the following end-devices do not need to fulfill BS EN/EN61000-3-2
- a) professional equipment with a total rated input power greater than 1000W; b) symmetrically controlled heating elements with a rated power less than or equal to 200W 6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- % Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



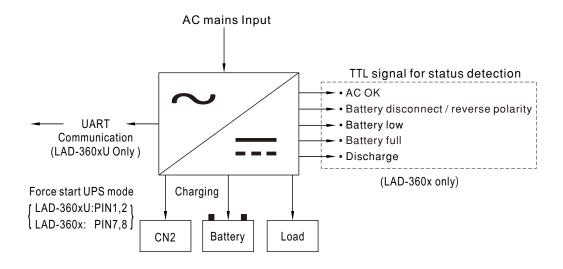




# ■ Suggested Application

#### 1.DC-UPS function

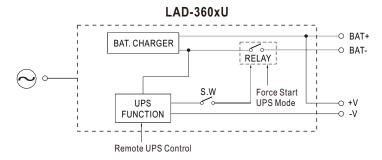
When AC voltage drops below 75/165VAC, The UPS function will activate and power source switch battery backup.



#### 2.UART Communication Function (U version only)

The power supply uploads various fault signals, power supply working status, single battery voltage, main voltage, output voltage and output current to the controller through the UART, and changes the power supply working status according to the controller instructions. For details, please refer to the user manual.

#### 2.1 Forced Start & Remote UPS Control(U version only)



#### ※ Force start UPS mode:

According to fire safety regulation, UPS power supply must equip with force start UPS function. In case of emergency, maintenance or testing, personal can active the UPS mode of by shorting PIN1 and PIN2 of LAD-360xU to ensure the energy supply to the loads. When operating under UPS mode, the BAT. UVP alarm is still active, but the BAT. UVP protection will be disable, therefore, the battery will be fully discharged until system shuts down.

Pin 1 & 2	Status
Short	Forced start
Open	Normal



#### Note:

<sup>1&</sup>lt;sup>st</sup> priority of UPS mode: Force start UPS function by internal relay.



#### ※ Remote UPS mode:

According to fire safety regulation, UPS power supply must equip with remote UPS function. So the power supply unit can be linked to the fire alarm system, user's system will be able to detect the status of PIN3 and PIN4 LAD-360xU with UART communication. When PIN 3 and PIN 4 is shorted, the power supply will enter remote UPS mode, therefore the UPS mode will be active and the status signal will also send to the fire alarm system for indication. Personal or the system can use the signal as trigger threshold for other alarm systems to decide when and how to enter the emergency sequence. Under this condition, BAT. UVP alarm and protection are still active.

Pin 3 & 4	Status
Short	Remote UPS control
Open	Normal



#### Note:

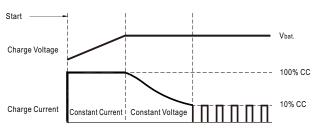
 $2^{nd}$  priority of UPS mode: UPS function can be activate by controlling with this signal, since the controller is still normal, the relay can be controlled through communication protocol.

#### 2.2 Charging Curve for Different Battery (U version only)

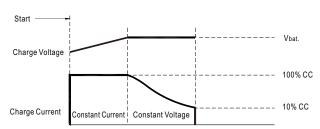
Pin 5 & 6	Battery Type
Short	Li-ion batteries
Open	Lead-acid (Pb) batteries







# O Charging curve



O Apply to Lead-acid batteries

O Apply to Li-ion batteries

## 2.3 Mode Selection for Buzzer(U version only)

Pin 7 & 8	Status
Short	Fire alarm system
Open	Evacuation system



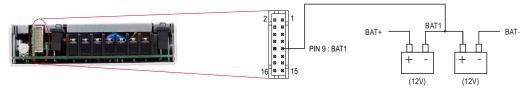
#### Note:

LAD-360BU Open circuit for fire alarm, Short circuit for evacuation; LAD-360CU/DU Open circuit for evacuation, Short circuit for fire alarm.

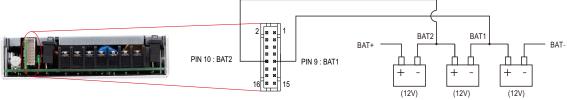


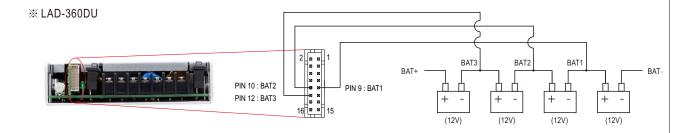
## 2.4 Battery Inspection

## **※ LAD-360BU**



# **% LAD-360CU**





# 2.5 UART Communication Interface(U version only)

Communication provides functions such as control, setting, and monitoring.

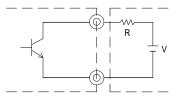
The parameters include the backup power switch, battery undervoltage point ,etc.





## 3. Function signals by TTL and UART

- TTL Signal is sent out through pins from CN2.
- External voltage source is required for the TTL signal. The maximum voltage is 50VDC and the maximum sink current is 30mA.



External voltage and resistor (The max. sink current is 30mA at 50VDC)

#### 3.1 AC OK: Detection of AC status

• TTL Signal for Blank version

Between pin 1 and pin 4	Description
Low (0.3V max. at 30mA)	The signal is "Low" when the AC input is normal
High or open (External applied voltage 50\	/ max.) The signal turns to be "High" when the AC input is abnormal



• Signal for UART Version

AC OK is achievable through UART communication protocol, please refer to for more detail: http://www.meanwell.com/manual.html

## 3.2 Battery Disconnected/Reverse Polarity: Battery status detection

• TTL Signal for Blank version

Between pin 2 and pin 4	Description
Low (0.3V max. at 30mA)	The signal is "Low" when the battery is not connected or inversely connected
High or open (External applied voltage 50V max.)	The signal turns to be "High" when the battery is connected or normal



Note. The signals of battery disconnected and reverse polarity can only be detected during the first power transmission, it is can not be detected at any time.

• Signal for UART Version

 $Battery\ Disconnected/Reverse\ Polarity\ is\ achievable\ through\ UART\ communication\ protocol, please\ refer\ to\ for\ more\ detail: \\ \underline{http://www.meanwell.com/manual.html}$ 



## 3.3 Battery Low: Battery low detection

• TTL Signal for Blank version

Between pin 3 and pin 4	Description
Low (0.3V max. at 30mA)	The signal is "Low" when the battery is under voltage protected
High or open (External applied voltage 50V max.)	The signal turns to be "High" when the battery is normal



Signal for UART Version
 Battery Low is achievable through UART communication protocol, please refer to for more detail:
 <a href="http://www.meanwell.com/manual.html">http://www.meanwell.com/manual.html</a>

# 3.4 Battery Full: Battery full detection

• TTL Signal for Blank version

Between pin 4 and pin 5	Description
Low (0.3V max. at 30mA)	The signal is "Low" when the battery is fully charged
High or open (External applied voltage 50V max.)	The signal turns to be "High" when the battery is charged



• Signal for UART Version

Battery Full is achievable through UART communication protocol, please refer to for more detail: <a href="http://www.meanwell.com/manual.html">http://www.meanwell.com/manual.html</a>



#### 3.5 Discharge: Discharge detection

• TTL Signal for Blank version

Between pin 4 and pin 6	Description
Low (0.3V max. at 30mA)	The signal is "Low" when the power supply is discharging
High or open (External applied voltage 50V max.)	The signal is "High" when the main power is working



• Signal for UART Version

Discharge is achievable through UART communication protocol, please refer to for more detail:  $\underline{\text{http://www.meanwell.com/manual.html}}$ 

#### 3.6 Forced Start: Forced start UPS mode

• TTL Signal for Blank version

Pin 7 & 8	Status
Short	Forced start UPS mode
Open	Normal



• Signal for UART Version

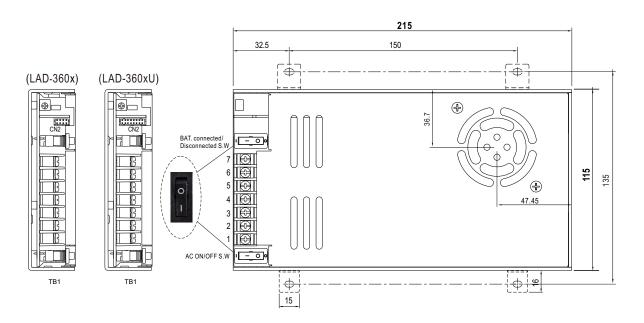
Forced Start is achievable through UART communication protocol, please refer to for more detail: <a href="http://www.meanwell.com/manual.html">http://www.meanwell.com/manual.html</a>

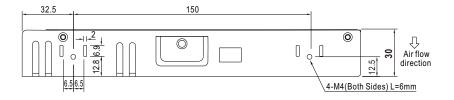


# ■ Mechanical Specification

Case No.

Unit:mm





## ※ Connector Pin No. Assignment(CN2) (LAD-360x)

Pin No.	Assignment(TTL Signal)	Mating Housing	Terminal
1	AC OK		
2	Battery disconnect/ reverse polarity		
3	Battery low	TIVE BLIG	TIVE BUT 40/1 E
4	GND	TKP DH2 or equivalent	TKP DHT-1S(LF) or equivalent
5	Battery full	or equivalent	or equivalent
6	Discharge		
7,8	Open : normal Short : forced start UPS mode		

## X Terminal Pin No. Assignment(TB1)

	_
Pin No.	Assignment
1	AC/L
2	AC/N
3	FG ±
4	DC OUTPUT -V
5	DC OUTPUT +V
6	BAT -
7	BAT +

# <u>(1</u>)

DC OUTPUT -V and BAT - can not be shorted.

## Connector Pin No. Assignment(CN2) (LAD-360xU)

Pin No.	Assignment	Mating Housing	Terminal
1,2	Short : forced start	TKP DH2 or equivalent	TKP DHT-1S(LF) or equivalent
1,2	Open : normal		
3,4	Short : Remote UPS control		
3,4	Open : normal		
F.0	Short : Li- ion batteries		
5,6	Open : Lead-acid (Pb) batteries		
7,8	Fire alarm/ evacuatione option		
9	BAT1		
10	BAT2		
11	NC		
12	BAT3		
13	UART_RX		
14	UART_TX		
15	GND		
16	3.3V		

+3.3 V (ref) for testing use only; can't supply power over 1mA for a long time

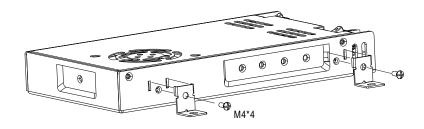


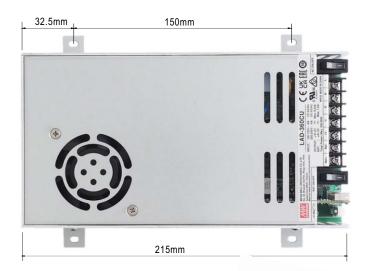
# ■ Accessory List

Bracket (Optional accessory, Should ordered seperately)

MW's Order No.	Item	Quantity
PGG2MHS012		4pcs/per model

# ■ Installation Diagram









# ■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html