

LAD-120/240/360/600 Series:

120W~600W Enclosed Type Economical Security/Fire Alarm Power Supply

MEAN WELL is the global standard power supply leader, marketing its own MEAN WELL brand in over 80 countries worldwide. In the security and fire alarm industry, MEAN WELL has three complete product lines, [PCB type, DIN rail type and enclosed type, which include the PSC, DRC, DRS, SCP and AD series that cover from 35W~480W](#). In recent years, due to the needs created by rapid urban development, the demand for safe, reliable, certified and smart security/ fire alarm power supplies has been increasing. Accordingly, MEAN WELL is announcing its new Enclosed Type Economical Security/ Fire Alarm Power Supply LAD-120/ 240/ 360/ 600 series.

The LAD series is designed with 1U thin enclosed design, and is separated into the basic model (LAD-120/ 240/ 360/ 600) and UART communication model (LAD-360/ 600xU). The CH1 of both models can be used to supply power to the loads, and the built-in auxiliary output CH2 for both models can charge the battery, with the battery providing a UPS function. The CH1 output voltage can be adjusted from -20 ~ +5%, and can fulfill all needs for different battery types and fine voltage adjustments. Complete protections (Short circuit/OLP/OVP/OTP/BAT, UVP/BAT, Reverse polarity) are provided, and include complete safety approvals (CB/UL/RCM/CE/UKCA/EAC) as well as design in line with GB17945 and GB4717 (UART version only) fire regulations. The LAD series is suitable for security control, fire protection, emergency lighting, access control alarm, computer room and peripherals, central monitoring, and all other UPS system needs.

Please refer to the following chart for parameter comparison between old generation and LAD series:

		Old Generation: AD series (2000 Oct. launched)	New Generation: LAD series (2022 Aug. launched)	
Series		AD-55/155	LAD-120/ 240/ 360/ 600x (Basic version)	LAD-360/ 600xU (UART version)
Input voltage		88~264Vac	LAD-120 series: 90 ~ 264Vac LAD-240/ 360/ 600 series:115/230Vac by DIP SW.	
Output wattage		55W/ 155W	120W/240W/360W/600W	360W/600W
Main output voltage (CH1)		13.8V/ 27.6V	120W/ 240W : 13.8V/ 27.6V/ 41.5V/ 55.2V 360W/ 600W : 27.6V/ 41.5V/ 55.2V	
Built-in charger circuit (CH2)		V	V	V
Lead-acid/Lithium battery charging curve selectable		X	X	V
Function	UPS	V	V	V
	AC OK	X	TTL signals for battery pack detection	UART signal for individual battery detection
	BAT. Disconnected	X		
	BAT. Reverse polarity	X		
	BAT. UVP	X		
	BAT. Full	X		
	Buzzer	X	X	V
Built-in AC and battery circuit ON/OFF switch		X	V	V
Linkage / Force start UPS mode		X	Force start UPS mode	Linkage/Force start UPS mode
Operating temperature		-10 ~ +60°C	-20 ~ +60 °C	
Protection		Short circuit/ OLP/ OVP	Short circuit/ OLP/ OVP/ OTP/ BAT. UVP/ BAT. Reverse polarity (no damage)	
Safety approvals		Pass CB/ TUV/ UL/ EAC/ CE/ UKCA	Pass CB/ UL/ RCM/ EAC/ CE/ UKCA; Design refer to GB17945	Pass CB/ UL/ RCM/ EAC/ CE/ UKCA; Design refer to GB17945, GB4717
Dimension (LxWxH)		55W : 159x 97x 38mm 155W: 199x 110x 50mm	120W : 159x 97x 30mm 240W/360W: 215x 115x 30mm 600W : 225x 124x 41mm	
Warranty		2 years	3 years	