

SC-120-12 & SC-120-24

12VDC 8 Ampere or 24 VDC 4 Ampere PSU with battery charging



- Universal AC input 90 to 264 VAC
- Low profile
- Protections; short circuit/overload/over voltage
- 3 LED Indicator PCB for Mains/charging/DC output ok
- 8A at 12VDC + 500mA battery charging
- 4A at 24VDC + 300mA battery charging
- Battery deep discharge protection
- Aluminium case and cover

The SC-120-12/24 is a compact power supply module with charging for lead acid batteries. With very low ripple and noise this unit is suitable to power a range of security equipment, including access control. The battery automatically takes over if the mains input fails and the deep discharge protection cuts the power at 10.5 or 21 Volt for 24 Volt operation to avoid permanent damage to the battery. The PSU module has a small 3 x LED PCB with a 30 centimetre ribbon cable which can be disconnected. This provides feedback on mains present, DC output ok and indicates when the batteries are being charged. Once the batteries are charged the unit changes to float charging.

12VDC 120W PSU with battery charging, 90-264 VAC

Specifications

Model		SC-120-12	SC-120-24
Output	DC voltage	12V	24V
	Voltage tolerance	±1%	±1%
	Rated current	8A + battery charging	4A + battery charging
	Current range	0~8A	0~4A
	Rated power	117.1W	118.4W
	Ripple & noise	120mVp-p	180mVp-p
	DC voltage ADJ. range	±10%	±10%
Battery charge	Fast charge + float	500 mA/100mA	300 mA/60mA
LED	LED PCB with ribbon cable	Red= Mains ok, Green= Output ok, Clear flashing= charging, 30 CM cable	
Input	Voltage range	90~264VAC	
	Frequency	47~63HZ	
	AC current	11.3/14.9VAC, 21.3A/29.8VAC	
	Efficiency	84%	86%
	Inrush current	Cold start current 30A/115VAC, 50A/230VAC	
	Leakage current	< 1mA/240VAC	
Protection	Over-load	Rated output power 110%~150% start overload protection protection type: hiccup mode, auto-recovery after fault condition is removed	
	Battery protection at low voltage	9.5~11.V	20~22V
		Deep discharge protection mode	
Environment	Working temp, humidity	-10°C~+60°C, 20%~90%RH	
	Storage temp, humidity	-20°C~+85°C, 10%~95%RH non-condensing	
	Withstand vibration	10~500HZ, 2G 10min/1cycle, period for 60 minutes, each axis	
Safety	Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100Mohms/500VDC	
Standards	Safety standard	Compliance to UL60950-1	
	EMC standard	Compliance to EN55022, CLASSB	
Others	Dimensions module only	159 x 98 x 38mm(L*W*H)	
	Weight/packing	0.56Kg/45pcs/24Kg	
Note	1)All parameters NOT specifically mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2) Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1uf & 47uf parallel capacitor. 3) Tolerance: includes line and load regulation.		

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Dycon leads the security and associated power supply markets, with UK design and manufacture of advanced power products, engineered to provide high quality, cost-effective solutions to meet current regulations and the specific needs of system integrators and end-users.

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