



Features:

- Seamless switching between main and backup power
- TTL singals for status detection(optional:485 communication)
- Protections: Short circuit, Overload, Battery reverse polarity
- 120% peak power capability
- Accurate charge and discharge management
- Forced UPS mode for battery maintenance

Application

- Fire alarm controller, electrical fire monitoring equipment
- Combustible gas alarm controller, Gaseous fire suppression system
- Security monitoring system
- distributed temperature sensor
- Fire equipment power monitoring system

Specification						
MODEL		SNE-110-27				
INPUT	VOLTAGE RANGE	187~253VAC				
	FREQUENCY RANGE	47~63Hz				
	Backup power voltage	18-28VDC				
	EFFICIENCY(Typ.)	85%				
	AC CURRENT(Typ.)	1.0A/230VAC				
	INRUSH CURRENT(Typ.)	40A/230VAC (cold start)				
	LEAKAGE CURRENT	<0.3mA/240VAC				
	DC VOLTAGE	27.5V				
	CURRENT RANGE	0-4A				
OUTPUT	RATED POWER	110W (Including charging channel)				
	RIPPLE&NOISE(max.)	300mVp-p				
	VOLTAGE TOLERANCE	±2.0%				
	LINE REGULATION	±1%				
	LOAD REGULATION	±2.0%				
	OVER SHOOT (max.)	5%Vout				
	SETUP TIME (max)	3S				
	CAPACITIVE LOAD (min)	4000uF				
	CONVERSION TIME	0mS				
PROTECTION	OVER LOAD	120%~150% rated output power/Self-recovery				
	SHORT CIRCUIT Note6	HICCUP mode, recovers after fault condition is removed; When the backup power is working, the output is short circuited and the backup power fuse is burned out. After replacement, it will resume normal operation				
	BATTERY REVERSE POLARITY	no damage,recovers after fault condition is removed				
	CHARGING CURRENT	0.35A/Range:0.3-0.4A				
BACKUP POWER MANAGEMENT	FIOAT CHARGING VOLTAGE	27.2VDC/Range:26.4–28VDC				
	BATTERY LOW	22VDC/Range:21-23VDC				
	DISCHARGE	21VDC/Range:20–22VDC output shutdown, Buzzer alarm 2 hours.During this period, the output is normal after the main power is restored				
FUNCION SIGNALS	BACKUP POWER STATUS	When the backup power is normal, the signal output is at a low level; When the backup power fails to provide output due to undervoltage, short circuit, power outage, etc. during the main power operation, or when the backup power voltage is lower than the backup power undervoltage point during the backup power operation,				
	AC STATUS	When the main power is working normally, the signal output is at a low level; When the AC input voltage is below 170 ± 15VAC, power outage, etc., and AC power cannot be provided, the signal output is at a high level.				
ENVIRONIMENT	WORKING TEMP, HUMIDITY	-10~+50°C, 20~90%RH non-condensing				
	STORAGE TEMP,HUMIDITY	-40~+60°C, 10~95%RH				
	ALTITUDE	≤3000m				
	Heat dissipation mode	Cooling by free air convection				
Safety and electromagnetic compatibility	Safety standards	GB4717-2005、GB14287.1-2014 and other standards for the power part of the requirements				
	Withstand voltage	I/P-O/P 3KVAC,I/P-FG 1.5KVAC,FG-O/P 0.5KVAC				
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100MΩ/500Vdc/25°C/70%RH				
	Surge Lightning	Line to line:1KV, Line to PE:2KV				
	Group immunity of electrical fast	AC Line:2KV, Other line: 1KV				



Specification						
Electromagnetic compatibility immunity	Electromagnetic compatibility emissionemission	Parameter	Standard	Test Level / Note		
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1EAC TP TC 020,MSIP KN32	Class A		
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1EAC TP TC 020,MSIP KN32	Class A		
		Harmonic current	BS EN/EN61000-3-2,GB9254	Class A		
		Voltage flicker	BS EN/EN61000-3-3			
	Electromagnetic compatibility immunity	BS EN/EN55035				
		Parameter	Standard	Test Level /Note		
		ESD	BS EN/EN61000-4-2	Level 4, 8KV /15KV		
		RF field susceptibility	BS EN/EN61000-4-3	Level 4		
		EFT bursts	BS EN/EN61000-4-4	Level 3, 2KV		
		Surge susceptibility	BS EN/EN61000-4-5	Level 3, 1KV		
		Conducted susceptibility	BS EN/EN61000-4-6	Level 4		
		Magnetic field immunity	BS EN/EN61000-4-8	Level 4		
		Voltage dips , interruption	BS EN/EN61000-4-11			
OTHERS	DIMENSION	146*80*48mm				
	Warranty	18months				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Line regulation ,voltage must be measured from the output terminal. Efficiency needs to be measured when the backup power is in a floating charge state. The specification of the backup power fuse is 7.5A automotive fuse 					



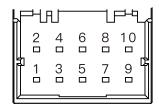
State signal output function:

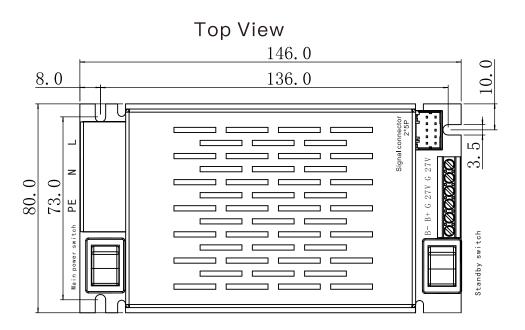
The signal of working state is output at TTL level, high level (4.0-5.3 V) effective, low level $(\le 0.8 \text{ v})$ effective, the maximum absorption current is 1 mA, the maximum output current is 1 mA.

The pins are arranged as shown in the following figure

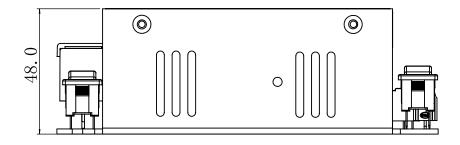
PIN function: PIN1: FG

PIN3: Standby power fault signal PIN5: Main power fault signal





Installation size diagram, unit: mm



Front View