

24V DC BATTERY CHARGER AND POWER SUPPLY



VOICE ALARM SYSTEM

DESCRIPTION

The NVS-EN85PS is an EN54-16 certified 24V DC emergency power supply and battery charger, designed to ensure uninterrupted power during AC mains failures. It automatically switches to backup power in emergencies and intelligently manages battery charging under normal conditions to maximize performance and extend battery lifespan. Ideal for voice alarm and life safety systems, it provides reliable power continuity and efficient battery management in compliance with international safety standards.

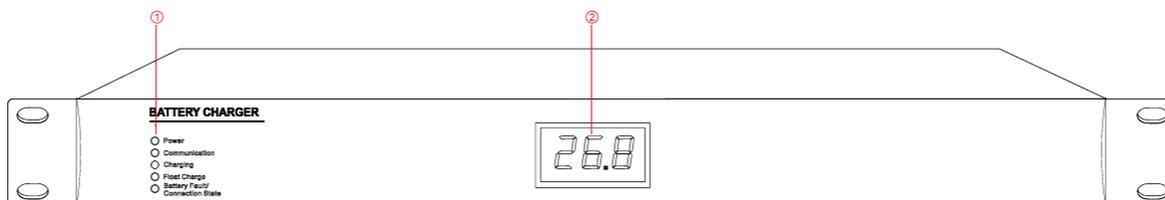
FEATURES

- ⦿ Auto switch to DC on AC failure; auto/manual charge modes
- ⦿ Battery protection: failure, over-voltage, overheating, overcharge
- ⦿ Smart charge sequence: pre-charge → constant current → trickle
- ⦿ Temp-controlled fan, overheat protection, real-time monitoring
- ⦿ Supports DC24V lead-acid batteries (up to 200Ah)
- ⦿ RS485, zone ID preset (up to 200 units), auto DC24V disable on AC

| Specifications | |
|--------------------------|---|
| Model | NVS-EN85PS |
| AC Maximum Current | 2A |
| AC Fuse | 250V/3.15A, low speed type |
| DC Power Output | 24V DC |
| DC Maximum Current | 10A+10A |
| Maximum Charging Current | 10A adjustable |
| Charging Mode | Constant current & Constant voltage(Charging current reduction) |
| Charging Time | When the battery power is 50%,the whole charge time is 5-11 hours |
| Cooling System | Speed controlled cooling fan |
| Operation Temp | +5°C to +45°C |
| Operation Humidity | <95% |
| Connector | Two battery inputs, two 24V DC outputs, two RS485 and two CAN inputs.Battery capacity selector and ID selector. |
| Power Supply | AC185V-265V 47Hz--63Hz |
| Dimension(WxDxH) | 370(W)×440(D)×44(H) |
| Weight | 4.65kg |

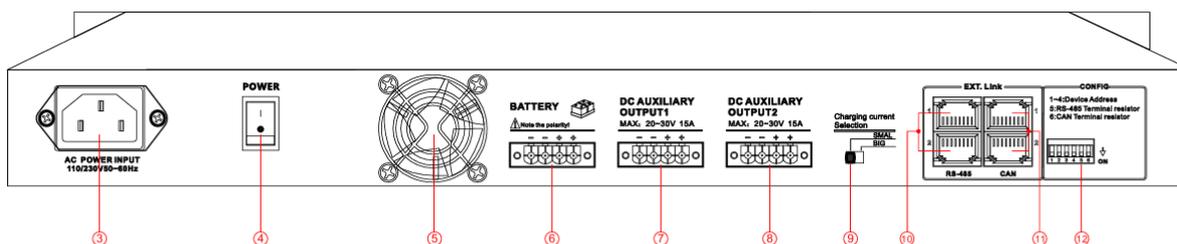
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FRONT PANEL



- 1. LED indicator
- 2. Voltage Display screen

REAR PANEL



- 3. AC input
- 4. Power switch
- 5. FANS
- 6. Battery connector
- 7. DC auxiliary output1
- 8. DC auxiliary output2
- 9. Charging current selection
- 10. RS485 port
- 11. CAN port
- 12. DIP address/Terminal resistance preparation

ORDERING INFORMATION

| Part Number | Description | Standard Quantity |
|-------------|---|-------------------|
| NVS-EN85PS | 24V DC BATTERY CHARGER AND POWER SUPPLY | 01 |

ACCESSORIES INFORMATION

| Description | Standard Quantity |
|-------------|-------------------|
| User Manual | 01 |