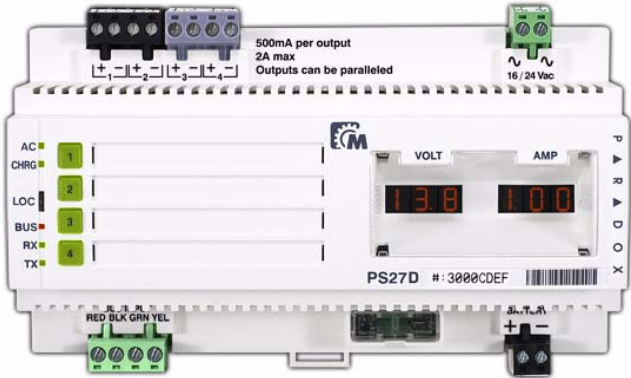
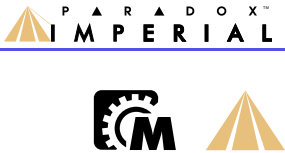


PS27D: 4 Output 2.85A Power Supply Module V1.0



NOTE: For more detailed installation and programming instructions, refer to the Imperial System Guide.

Description

The PS27D is a fully-supervised 2.85A switching power supply with 4 auxiliary outputs that provide 12 VDC, 500 mA each. These outputs can be connected in parallel to combine output power.

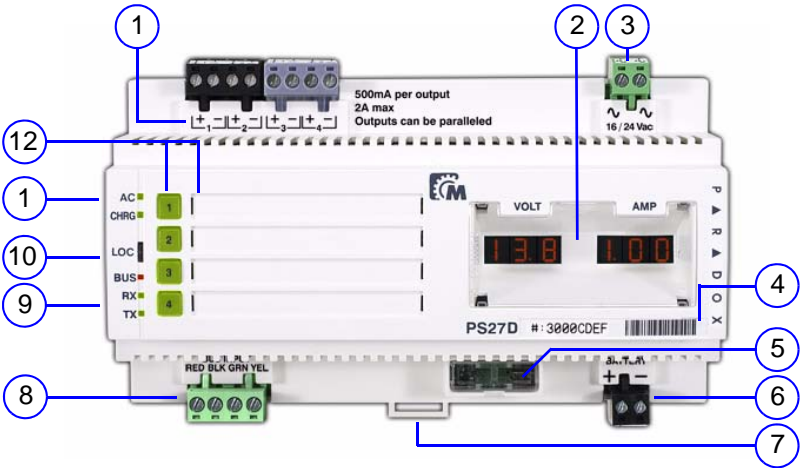
The PS27D features local output control buttons, Multibus and power status LEDs, and a 7-segment display that shows the voltage and amperage of each output, or sum of all outputs.

Features

- 2.85A built-in switching power supply with transformer sharing (share central supply throughout the system)
- 4 auxiliary outputs providing 13.8 VDC, 500 mA each (can be used in parallel to increase output current)
- 7-segment display for voltage and amperage of each output, or sum of all outputs
- LED module status display
- On-board buttons to manually turn on/off each output
- Supervises AC, battery, low battery and output limit
- Selectable battery charge current (350 mA/850 mA)
- Connects to Multibus: 4-wire encrypted 13.8 VDC communication bus at 500bps
- Remote firmware upgrade via Multibus using RS485 at 57.6Kbps
- All programming is done using BabyWare PC Software
- DIN rail enclosure with removable terminals for fast, secure, orderly and economical installation
- Bi-directional Module Locate feature

Overview

- 1) Each output provides 13.8 VDC, 500 mA
- 2) Displays voltage and amperage supplied to the aux. outputs
- 3) Power input: 16-24 VAC / 18-24 VDC
- 4) Product serial number
- 5) Fuse not required (PS27D features fuseless protection)
- 6) Battery backup: 12 VDC, 7 Ah
- 7) Release clip
- 8) 4-wire Multibus connection
- 9) Multibus feedback LEDs
- 10) Bi-directional locate feature
- 11) Power status LEDs
- 12) Local on/off control for each output with space to label each output



Specifications

Electrical rating	16-24 VAC; 50 or 60Hz or 18-24 VDC; 50 W; 75VA NOTE: External power supply shall meet requirements of a limited power source in accordance with EN 60950-1 clause 2.5.
Aux. outputs	Typical 12 VDC (10.8 to 13.8 VDC); 2A Connect in parallel to combine output power: For example, combine 1-4 for 1 output at 2A For example, combine 1-2 for 1 output at 1A
Battery	12 VDC; 7 Ah minimum
Multibus rating	13.8 VDC Class 2
Dimensions	Standard DIN9: 16 X 10 X 6 cm (4.1 X 6.3 X 2.5 in.)
Operating temperature	0°C to 50°C (32°F to 122°F)

Wiring

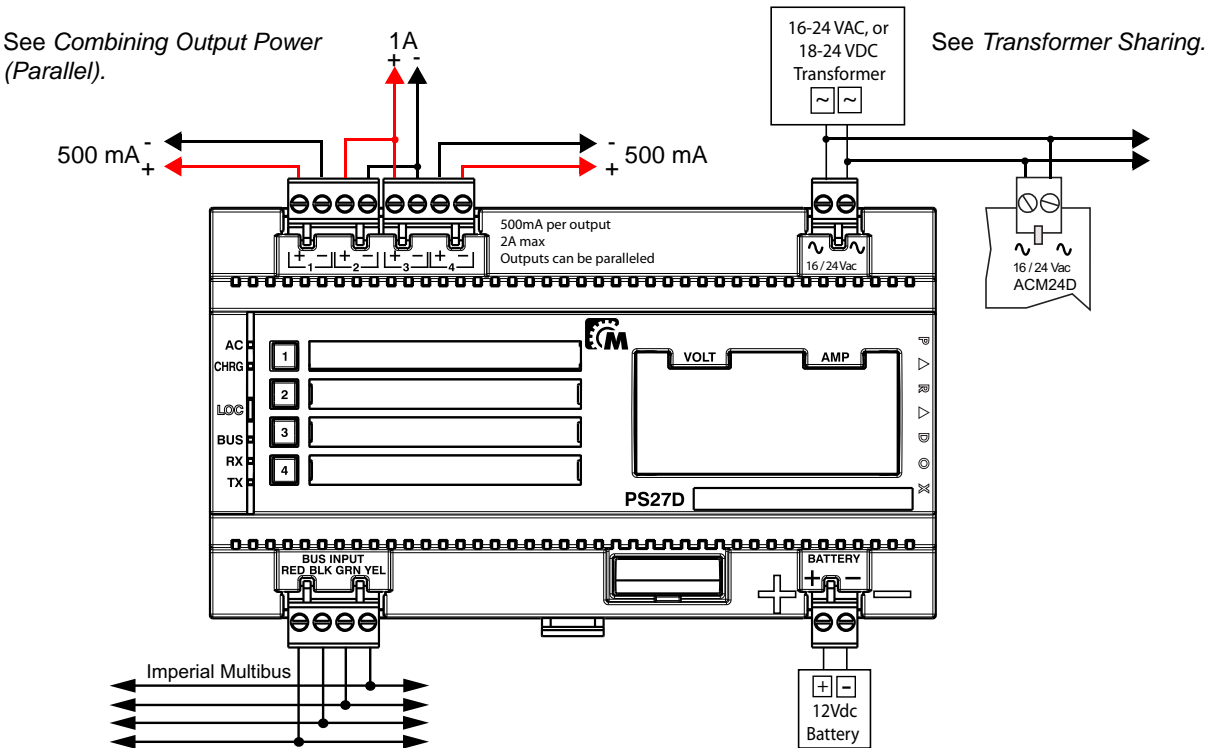
Transformer Sharing

The PS27D features Transformer Sharing that enables modules with this feature to share a central transformer (16-24 VDC, or 18-24 VDC) throughout the system. Ensure that the total power output of the transformer is respected. There is no specific polarity connection when using a DC transformer.

Combining Output Power (Parallel)

Any combination of outputs can be wired in parallel to combine output power. For example, in the diagram below, outputs 2 and 3 were connected in parallel to provide one output at 1A. Another example would be to wire all 4 outputs in parallel to provide one output at 2A. To wire in parallel:

- 1) Using the local control buttons, deactivate the outputs (LED off) you want to combine. If outputs are not first deactivated, the correct voltage and amperage will not be displayed.
- 2) Wire the outputs you want to combine in parallel as shown.
- 3) Reactivate the combined outputs by pressing only one of the local control buttons. For this example, pressing local control button 2 will reactivate outputs 2 and 3.

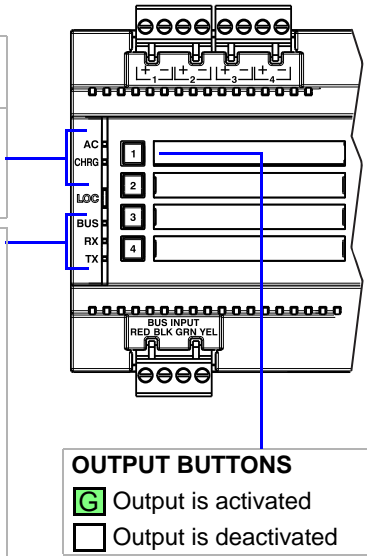


NOTE: Wiring methods must be in accordance with the National Electrical Code ANSI/NFPA 70.

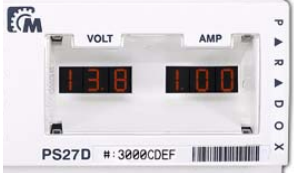
LED Feedback

R = Red G = Green B = Blue ☐ = Off ☒ = On  = Flashing

AC <div><div>G</div> AC or DC power is supplied</div>	
CHRG <div><div>G</div> Battery charging / test mode</div> <div><input type="checkbox"/> No battery / battery fully charged</div>	
MULTIBUS	
BUS <input type="checkbox"/> OK: Communication in progress	BUS <div><div>R</div></div> Battery voltage low
RX <div><div>G</div></div>	RX <input type="checkbox"/>
TX <div><div>G</div></div>	TX <input type="checkbox"/>
BUS <div><div>R</div></div> Com fail: GRN/YEL short / no data	BUS <div><div>R</div></div> Module Locate mode
RX <input type="checkbox"/>	RX <div><div>G</div></div>
TX <input type="checkbox"/>	TX <div><div>G</div></div>
BUS <div><div>R</div></div> Com fail: too many modules / wrong data	BUS <div><div>B</div></div> Firmware upgrade in progress
RX <input type="checkbox"/>	RX <input type="checkbox"/>
TX <div><div>G</div></div>	TX <input type="checkbox"/>
BUS <div><div>R</div></div> Com fail: GRN/YEL reversed	BUS <div><div>B</div></div> Multibus in RS485 mode
RX <div><div>G</div></div>	RX <input type="checkbox"/>
TX <div><div>G</div></div>	TX <input type="checkbox"/>



Volt / Amp Display

Normal Mode Not in Output or Global mode.	VOLT Voltage that can be supplied to outputs	AMP Total amperage supplied to all four outputs	
Output Mode Press and hold an output button for two seconds. Exits in 5 minutes or by pressing and holding the same button.	VOLT Cycles between output # (e.g. 0-1) and voltage being supplied to selected output.	AMP Amperage supplied to selected output	
Global Mode Press and hold buttons 1 and 4 for two seconds. Exits in 5 minutes or by pressing and holding buttons 1 and 4.	VOLT Cycles through the voltage of each output followed by total of all four outputs	AMP Cycles through the amperage of each output followed by total of all four outputs	

Patents: One or more of the following US patents may apply: 7046142, 6215399, 6111256, 6104319, 5920259, 5886632, 5721542, 5287111, 5119069, 5077549 and RE39406 and other pending patents may apply. Canadian and international patents may also apply.

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