

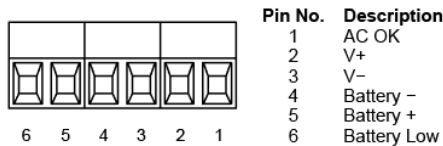
Open Frame Power Supply with Integrated DC-UPS

PSFA Series

Functions

Monitoring Signal Characteristics

The power supply is equipped with monitoring signal outputs for remote monitoring of the unit.

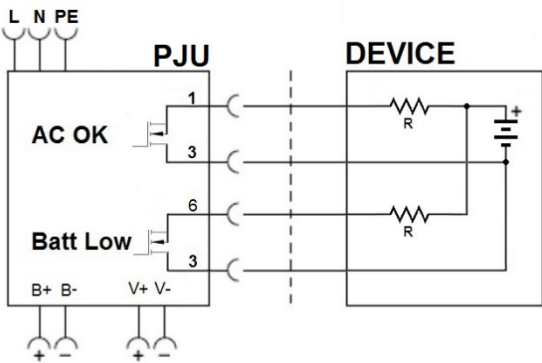


- (1) AC OK and Battery Low monitoring signal outputs are TTL open collector. Must be connected through a pull up resistor to V+ output, or another voltage source.
- (2) The applied voltage should be in the range of 5 V to 28 V with sink current of 2 mA to 30 mA.
- (3) The table below provides the characteristics of monitoring signal functions.

Function	Description	Monitoring Signal Status
AC OK	This signal is active Low when power supply is operating from AC input.	Low ¹⁾
	This signal changes to active High level when AC input voltage collapses	High ²⁾
Battery Low ³⁾	This signal turns active Low when battery voltage is lower than 11.5 Vdc typ. for 13 V model and 22.5 Vdc typ. for 27 V model, or when no battery is connected.	Low ¹⁾
	This signal is active High when battery voltage is higher than 11.5 Vdc typ. for 13 V model and 22.5 Vdc typ. for 27 V model	High ²⁾

1) Low: 0.5 V with max 30 mA
2) High: External applied voltage, 28 V max
3) Battery Low status will be changed to Low in buffering mode only.

Monitoring Signals Wiring Diagram



PJU Status	Monitoring Signal status		Green LED Indicator
	AC OK	Battery Low	
PJU OFF	High	High	OFF
Battery Reversed (no AC input)	High	High	OFF
PSFA ON ¹⁾ with Battery	Low	High	ON
Battery Charging			
Battery Fully Charged			
Battery Discharging (Buffering Mode)	High	High	ON
Battery Discharging (Low Battery detected)	High	Low	OFF
Output Shutdown	High	High	OFF

1) "PSFA ON" means that PSFA is operating from AC input voltage