

Allen-Bradley · ControlLogix

1756-PA75R

AC Redundant Power Supply

Product identity and technical data

Product family	ControlLogix
Product type	AC redundant power supply
Nominal input	120/240 V AC, 50/60 Hz
Input voltage range	85...265 V AC
Input frequency range	47...63 Hz
Maximum input power	120 VA / 115 W
Maximum output power	75 W at 0...60 °C
Maximum inrush current	20 A
Hold-up time	2 cycles at 60 Hz; 2 cycles at 50 Hz
Current capacity	1.5 A at 1.2 V; 4 A at 3.3 V; 13 A at 5.1 V; 2.8 A at 24 V
Annunciator rating	240 V AC 50/60 Hz or 240 V DC, 50 mA, resistive only
Isolation voltage	250 V continuous reinforced insulation; type-tested at 3250 V DC for 60 s

Documented role

1756-PA75R is an Allen-Bradley ControlLogix AC redundant power supply for critical chassis applications.

Two supplies share the chassis current through 1756-CPR2 cables and a 1756-PSCA2 adapter, while either supply can carry the complete chassis load if the other supply fails.

Selection and installation checks

- Two supplies share the chassis current and one supply can carry the full load after the other fails
- The AC input range is 85...265 V at 47...63 Hz with 75 W maximum output
- A complete redundant system uses two power supplies, two 1756-CPR2 cables, and one 1756-PSCA2 adapter

1756-PA75R redundancy protects against one supply failure only; verify Series A, compatible Series B or Series C chassis, two-supply load capacity, 1756-CPR2 cables, 1756-PSCA2 adapter, AC input, annunciator, grounding, and clearance.