



## 1769 Compact Power Supplies, Expansion Cables, and End Caps

### Power Supplies

Using an expansion I/O power supply increases the system's capacity for adding expansion I/O modules.

### 1769 Compact Power Supplies Specifications

Attribute	1769-PA2	1769-PB2	1769-PA4	1769-PB4
Input Voltage, nom	120V AC or 240V AC	24V DC	120V AC or 240V AC	24V DC
Input Voltage Range	85...265V AC	19.2...31.2V DC	85...265V AC	19.2...32V DC
Line Requirement, max	100 VA @ 120V AC 130 VA @ 240V AC	50 VA @ 24V DC	200 VA @ 120V AC 240 VA @ 240V AC	100 VA @ 24V DC
Output Bus Current Capacity (0°...55 °C) (32°...131 °F)	2 A @ 5V DC 0.8 A @ 24V DC		4 A @ 5V DC 2 A @ 24V DC	
24V DC User Power Capacity (0°...55 °C) (32°...131 °F)	250 mA	N/A	N/A	N/A
Inrush, max	25 A at 132V AC, 10 Ω source impedance 40 A at 265V AC, 10 Ω source impedance	30 A at 31.2V DC	25 A at 132V AC, 10 Ω source impedance 40 A at 265V AC, 10 Ω source impedance	30 A at 31.2V DC
Line Loss Ride Through	10 ms, min...10 s, max		5 ms, min,...10 s, max	
Load Current, min	0 mA at 5V DC; 0 mA at 24V DC			
Short Circuit Protection	Front Access Fuse (replacement part number: Wickmann 19195-3.15A, Wickmann 19343-1.6A, or Wickmann 19181-4A)	Front Access Fuse (replacement part number: Wickmann 19193-6.3A)	Front Access Fuse (replacement part number: Wickmann 19195-3.15A or Wickmann 19181-4A)	Front Access Fuse (replacement part number: Wickmann 19193-6.3A)
Bus Overvoltage Protection	for both +5V DC and for +24V DC			
Isolation Voltage (input power to 1769 bus) Verified by one of these dielectric tests	1836V AC for 1 s or 2596V DC for 1 s or 265V Working Voltage (IEC Class 1 - grounding required)	1200V AC for 1 s or 1697V DC for 1 s or 75V Working Voltage (IEC Class 1 - grounding required)	1836V AC for 1 s or 2596V DC for 1 s or 265V Working Voltage (IEC Class 1 - grounding required)	1200V AC for 1 s or 1697V DC for 1 s or 75V Working Voltage (IEC Class 1 - grounding required)
Power Supply Distance Rating	8 (up to eight I/O modules can be connected on either side of the power supply for a maximum of 16 modules)			
Certifications	UL 508, CSA (Class I, Division 2, Group A, B, C, D), CE			