



Slim Line Power Supplies PS5R-S

Features

- Lightweight and Compact in size
- Wide Power Range: 15W – 240W
- Universal Input:
 - 15W to 90W: 85-264V AC/100-370V DC
 - 120W and 240W: 85-264V AC/100-350V DC
- Power Factor Correction (EN61000-3-2) for 60W to 240W
- Meets SEMI F47 Sag Immunity (120W & 240W)
- NEC Class 2 rated (15W, 30W & 60W)
- Approved for Class 1, Div. 2 Hazardous Locations
- Fused input
- Overcurrent protection, auto-reset
- Overvoltage protection, shut down
- Spring-up Screw Terminal type, IP20
- DIN rail or Panel Surface Mount
- Approvals:
 - CE Marked, TÜV, c-UL, UL 508, UL 1310 (PS5R-SB, -SC, -SD), UL 1604, EN 50178:1997, LVD: EN60950:2000, EMC: Directive, EN61204-3:2000 (EMI: Class B, EMS: Industrial)



Specifications

| Part Numbers | 5V DC output | PS5R-SB05 | - | - | - | - | - | |
|------------------------------|--|-------------------------------|----------------|-----------|-------------------------|---|-------------------------|------|
| | 12V DC output | PS5R-SB12 | PS5R-SC12 | - | - | - | - | |
| | 24V DC output | PS5R-SB24 | PS5R-SC24 | PS5R-SD24 | PS5R-SE24 | PS5R-SF24 | PS5R-SG24 | |
| Output Capacity | | 15W (5V Model is 10W) | 30W | 60W | 90W | 120W | 240W | |
| Input | Input Voltage (single-phase, 2-wire) | 85 to 264 VAC, 100 to 370 VDC | | | | 85 to 264V AC, 100 to 350V DC | | |
| | Input Current (maximum) | 100VAC | 0.45A | 0.9A | 1.7A | 2.3A | 1.8A | 3.5A |
| | | 200VAC | 0.3A | 0.6A | 1.0A | 1.4A | 1.0A | 1.7A |
| | Internal Fuse Rating | 2A | 3.15A | 3.15A | 4A | 4A | 4A | 6.3A |
| | Inrush Current (cold start) | 50A maximum (at 200V AC) | | | | | | |
| Leakage Current (at no load) | 132V AC: 0.38 mA maximum 264V AC: 0.75 mA maximum | | 0.75mA maximum | | | 1mA maximum | | |
| Typical Efficiency | 5V DC | 69% | - | - | - | - | - | |
| | 12V DC | 75% | 78% | - | - | - | - | |
| | 24V DC | 79% | 80% | 83% | 82% | 84% | - | |
| Output Current Ratings | 5V DC | 2.0A | - | - | - | - | - | |
| | 12V DC | 1.2A | 2.5A | - | - | - | - | |
| | 24V DC | 0.65A | 1.3A | 2.5A | 3.75A | 5A | 10A | |
| Voltage Adjustment | ±10% (V. ADJ control on front) | | | | | | | |
| Output Holding Time | 20ms minimum (at rated input and output) | | | | | | | |
| Starting Time | 200ms maximum | - | - | - | - | 650ms maximum | 500ms maximum | |
| Rise Time | 100ms maximum (at rated input and output) | | | | | 200ms maximum | | |
| Line Regulation | 0.4% maximum | | | | | | | |
| Load Regulation | 1.5% maximum | | | | | | 0.8% max | |
| Temperature Regulation | 0.05% degree C maximum | | | | | | | |
| Ripple Voltage | 2% peak to peak maximum (including noise) | | | | | 1% peak to peak maximum (including noise) | | |
| Overcurrent Protection | 105% or more, auto reset | | | | 105 to 130%, auto reset | | 103 to 110%, auto reset | |
| Overvoltage Protection | 120% min. SHUTDOWN | | | | | | | |
| Operation Indicator | LED (green) | | | | | | | |
| Voltage Low Indication | LED (amber) | - | - | - | - | - | LED (amber) | |

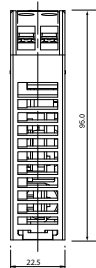
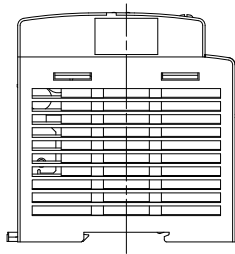
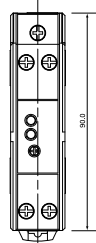
Specifications Con't

| | PS5R-SB | PS5R-SC | PS5R-SD | PS5R-SE | PS5R-SF | PS5R-SG | |
|--------------------------------------|--|--------------------|---------|-------------------------|--------------------|---------------------------|--|
| Parallel Operation | No | | | | | | |
| Dielectric Strength | Between Input and Ground: 2000 VAC, 1 minute* | | | | | | |
| Insulation Resistance | Between Input & Output Terminals: 100 MΩ Min | | | | | | |
| Operating Temperature | -10 to +65°C (14 to 149°F) | | | | | -10 to 60°C (14 to 140°F) | |
| Storage Temperature | -25 to 75°C (-13 to +167°F) | | | | | | |
| Operating Humidity | 20 to 90% relative humidity (no condensation) | | | | | | |
| Vibration Resistance | Frequency 10 to 55Hz, Amplitude 0.375mm | | | | | | |
| Shock Resistance | 300m/s ² (30G) 3 times each in 6 axes | | | | | | |
| Approvals | EMC: EN61204-3 (EMI: Class B, EMS: Industrial), c-UL (CSA 22.2 No. 14), UL 1604, UL 508, LVD: EN60950, EN50178 | | | | | | |
| | UL1310 Class 2, c-UL (CSA 22.2 No. 213 and 223) | | | - | SEMI F47 | | |
| Harmonic Directive | N/A | | | EN61000-3-2 A14 class A | | | |
| Weight (approx.) | 160g | 250g | 285g | 440g | 630g | 1000g | |
| Terminal Screw | M3.5 slotted-Phillips head screw (screw terminal type) | | | | | | |
| IP protection | IP20 fingersafe | | | | | | |
| Dimensions H x W x D (mm) | 90 x 22.5 x 95 | 95 x 36 x 108 | | 115 x 46 x 121 | 115 x 50 x 129 | 125 x 80 x 149.5 | |
| Dimensions H x W x D (inches) | 3.54 x 0.89 x 3.74 | 3.74 x 1.42 x 4.25 | | 4.53 x 1.81 x 4.76 | 4.53 x 1.97 x 5.08 | 4.92 x 3.15 x 5.89 | |

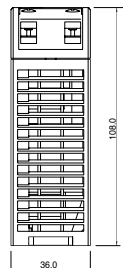
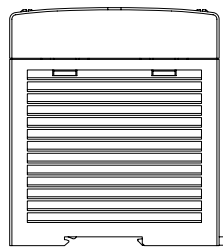
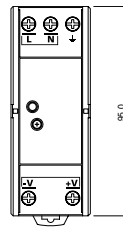
* Between input and output: 3000VAC, 1 minute; Between output and ground: 500VAC, 1 minute

Dimensions

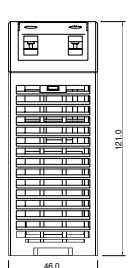
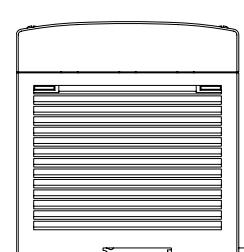
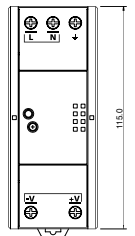
PS5R-SB



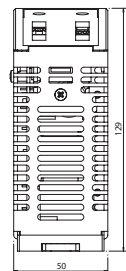
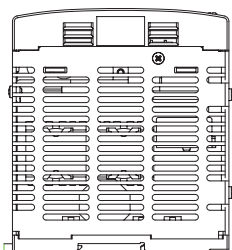
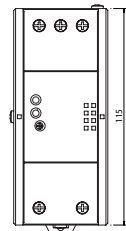
PS5R-SC
PS5R-SD



PS5R-SE



PS5R-SF



PS5R-SG

