

Power supply - regulated, 30 W

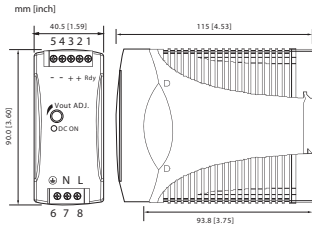
Primary switchmode power supply, Single-phase, Class 2

Input: Wide range input AC 85 V - 264 V; DC 90 V - 375 V

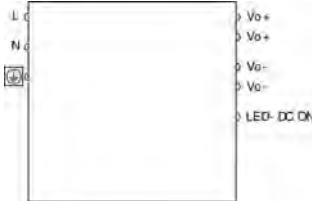
Output: 5 V / 12 V / 24 V / 48 V - adjustable



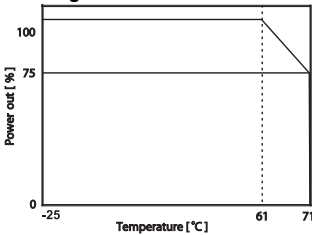
Dimensions



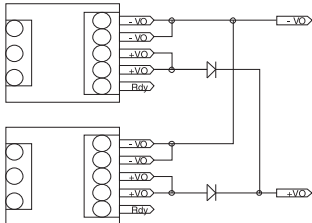
PIN assignment



Derating



Parallel mode



| Description | Part-No. | Type | PU | |
|------------------------|------------------|--------|------------|---|
| Screw terminal | | | | |
| Output voltage/current | DC 5 V; 6 A | 722763 | DRA 30-05A | 1 |
| | DC 12 V; 2.5 A | 722768 | DRA 30-12A | 1 |
| | DC 24 V; 1.25 A | 722753 | DRA 30-24A | 1 |
| | DC 48 V; 0.625 A | 722775 | DRA 30-48A | 1 |

| Input | DRA 30-05A | DRA 30-12A | DRA 30-24A | DRA 30-48A |
|--------------------------------|---|------------|------------|------------|
| Nominal voltage | AC 100-240 V | | | |
| Operation voltage range | AC 85-264 V / DC 90-375 V | | | |
| Line frequency | 47 - 63 Hz | | | |
| Rated current | U _i = AC 115 V: 360 mA / U _i = AC 230 V: 190 mA | | | |
| Inrush current | U _i = AC 115 V: 20 A / U _i = AC 230 V: 40 A | | | |
| Internal fuse | T2 A / AC 250 V | | | |
| External fuse | Mini-circuit breaker: B 3 A | | | |
| Power Factor Correction P.F.C. | - | | | |

| Output | DRA 30-05A | DRA 30-12A | DRA 30-24A | DRA 30-48A |
|-----------------------------------|---|------------------|------------------|------------------|
| Rated voltage output | DC 5 V | DC 12 V | DC 24 V | DC 48 V |
| Rated current output | 6 A | 2.5 A | 1.25 A | 0.625 |
| Max. output current | - | | | |
| Peak output current | - | | | |
| Voltage trim range | 5-5.5 V | 12/14 V | 24/28 V | 48/55 V |
| Accuracy | ±1 % | | | |
| Line regulation | ±0.5 % | | | |
| Load regulation | ±0.5 % | | | |
| Rise time | 1 s | | | |
| Temperature coefficient | ±0.03 % / °C | | | |
| Ripple & Noise | <50 mV | | | |
| Hold up time | V _{in} = 115 V: 20 ms / V _{in} = 230 V: 30 ms | | | |
| Status indication DC ON LED green | ≥4 V | ≥9.6 V | ≥19.2 V | ≥37 V |
| Status indication DC LOW LED red | - | | | |
| Parallel mode | with external diodes | | | |
| Efficiency | 79 % | 84 % | 86 % | |
| Low power loss | 8.5 A (AC 230 V) | 5.6 A (AC 230 V) | 5.5 A (AC 230 V) | 4.9 A (AC 230 V) |
| Rated over load protection | 120 - 136 % | | 110 - 140 % | |
| Over voltage protection | 125-137 % | | | |
| Short circuit characteristics | Hiccup-mode | | | |

| General | | | | |
|------------------------------------|---|----------|----------|----------|
| Switching frequency | approx. 80 kHz | | | |
| Insulation voltage input/output | AC 3.0 kV _{eff} | | | |
| Insulation voltage input / ground | AC 1.5 kV _{eff} | | | |
| Insulation voltage output / ground | - | | | |
| Insulation resistance at DC 500 V | 100 MΩ | | | |
| Operation temperature range | -25 °C - 70 °C (derating) | | | |
| Derating | -2.5 % / °C starting at 60 °C | | | |
| Storage temperature range | -25 °C - 85 °C | | | |
| M.T.B.F. | 551000 h | 582000 h | 588000 h | 609000 h |
| Relative humidity | 20-90% RH | | | |
| Dimensions (w x h x d) in mm | 40.5 x 90.0 x 115.0 | | | |
| Cooling | Air convection | | | |
| Housing material | Plastic | | | |
| Field installation | rail TS 35 (EN 50022) | | | |
| Application height | 2000 m | | | |
| Installation position | vertical | | | |
| Protection class | IP 20 | | | |
| Overvoltage category | II | | | |
| Pollution degree | 2 | | | |
| Protection class | - | | 2 | |
| Weight (kg/piece) | 0.290 | | | |
| Termination | Screw terminal: 0.2-2.5 mm ² | | | |

Approvals
 UL: UL 508 listed; cUL: UL 60950-1, UL 1310 Class 2; TÜV: EN 60950-1, CE: EN 61000-6-3 / EN 55022 Class B, EN 61000-3-2, EN 601000-3-3, EN 55024, EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

| Monitoring | | | | |
|---------------------|---|----------------|--|---|
| DC ON Control (Rdy) | - | Open Collector | | - |
| Switching voltage | - | DC 24 V | | - |
| Switching current | - | ≤ 35 mA | | - |
| Switching capacity | - | - | | - |
| Insulation voltage | - | none | | - |