

# SWS300&600 Series

## Single Output General Purpose Power Supplies



- ◆ Low cost
- ◆ Active Power Factor Correction
- ◆ Input Transient Protected IEC61000-4
- ◆ Enclosed

### Key Market Segments & Applications

|                    |                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------|
| Factory Automation | Process Control, NC-Machining, Automotive, Packaging Equipment, Materials Handling, Chemical Processing, Robots |
| Test & Measurement | Burn-in & Test, Automated, Detection Test, Instrumentation, Measurement                                         |
| Automated Service  | Vending Machines, Elevators, Video Gaming, Point of Sale Equipment                                              |

### SWS Features and Benefits

| Feature                   | Benefit                     |
|---------------------------|-----------------------------|
| ◆ Meets IEC61000-4        | ◆ Greater reliability       |
| ◆ Global safety Approvals | ◆ Supports Global Use       |
| ◆ Power Factor Corrected  | ◆ Supports Global Use       |
| ◆ Level B EMI             | ◆ Assists System Compliance |

### Specifications

| ITEMS                         |     | MODEL | SWS300                                                                                                          | SWS600                     |
|-------------------------------|-----|-------|-----------------------------------------------------------------------------------------------------------------|----------------------------|
| Input Voltage range           | (1) | -     | 85 - 265VAC (47 - 63Hz) or 120 - 370VDC                                                                         |                            |
| Inrush Current (115 / 230VAC) | A   | -     | 20 / 40                                                                                                         |                            |
| Power Factor                  | -   | -     | Meets EN61000-3-2                                                                                               |                            |
| Input Current (100/200VAC)    | A   | -     | 3.6 / 1.8A                                                                                                      | 7.2 / 3.6A                 |
| Temperature Coefficient       | -   | -     | <0.02%/°C                                                                                                       |                            |
| Overcurrent Protection        | --  | -     | >105%, Constant current style                                                                                   |                            |
| Overvoltage Protection        | V   | -     | 3.3V: 4.1-5.3V, 5V: 6.25-7.25V, 12V: 13.8-16.8V, 15V: 18.7-22.5V, 24V: 30-34.8V, 36V: 41.4-50.4V, 48V: 60-69.9V |                            |
| Overtemperature Protection    | -   | -     | Yes, cycle AC to reset                                                                                          |                            |
| Hold Up Time (Typ)            | ms  | -     | 20ms at 115/230VAC                                                                                              |                            |
| Leakage Current (max)         | mA  | -     | 0.75mA                                                                                                          | 1.5mA                      |
| Remote Sense                  | -   | -     | None                                                                                                            | Yes                        |
| Parallel Connection           | -   | -     | None                                                                                                            | Yes                        |
| Remote On/Off                 | -   | -     | None                                                                                                            | Yes                        |
| AC Fail Signal                | -   | -     | None                                                                                                            | Yes, open collector output |
| LED Indicator                 | -   | -     | Green LED = On                                                                                                  |                            |
| Operating Temperature         | -   | -     | -10 to +65°C (See table for derating - model specific)                                                          |                            |
| Storage Temperature           | °C  | -     | -30 to +85°C                                                                                                    |                            |
| Operating Humidity            | -   | -     | 30 - 90% RH (non condensing)                                                                                    |                            |
| Storage Humidity              | -   | -     | 10 - 95% RH (non condensing)                                                                                    |                            |
| Cooling                       | -   | -     | Internal fan                                                                                                    |                            |
| Withstand Voltage             | -   | -     | I/P to Grnd 2kVAC, I/P to O/P 3kVAC, O/P to Grnd 500VAC, O/P to CNT 100VAC for 1 min                            |                            |
| Isolation Resistance          | -   | -     | >100M at 25°C & 70%RH, Output to Ground 500VDC                                                                  |                            |
| Vibration (non operating)     | -   | -     | 10 - 55Hz (sweep for 1 min) 19.6m/s <sup>2</sup> constant X, Y, Z 1 hour each plane)                            |                            |
| Immunity                      | -   | -     | EN61000-4-2, -3, -4, -5, -6, -8, -11                                                                            |                            |
| Safety Agency Approvals       | -   | -     | UL60950, CSA60950, EN60950, EN50178, CE Mark                                                                    |                            |
| Conducted & Radiated EMI      | -   | -     | EN55011 / EN55022-B, FCC Class B                                                                                |                            |
| Weight (Typ)                  | g   | -     | 950                                                                                                             | 2000                       |
| Size (WxHxD)                  | mm  | -     | 52 x 102 x 198                                                                                                  | 92 x 120 x 190             |
| Warranty                      | yrs | -     | Two Years                                                                                                       |                            |

Notes: (1) Derate linearly to 85% load from 115VAC to 85VAC input (derate to 90% load for SWS600-5)

## Models

| Model     | Voltage | Adjust Range | Max Curr. | Load Reg mV | Line Reg mV | Ripple Noise | Eff.(3) (typ)% |
|-----------|---------|--------------|-----------|-------------|-------------|--------------|----------------|
| SWS300-3  | 3V      | 2.97-3.96V   | 55        | 40          | 20          | 120          | 67/70          |
| SWS300-5  | 5V      | 4.5-6V       | 55        | 40          | 20          | 120          | 76/79          |
| SWS300-12 | 12V     | 9.6-13.2     | 26        | 96          | 48          | 120          | 77/80          |
| SWS300-15 | 15V     | 13.2-18V     | 21        | 120         | 48          | 120          | 79/83          |
| SWS300-24 | 24V     | 20-28.8      | 13        | 120         | 48          | 150          | 82/85          |
| SWS300-36 | 36V     | 28.8-40V     | 8.7A      | 180         | 72          | 200          | 82/85          |
| SWS300-48 | 48V     | 40-57.6      | 6.7       | 240         | 96          | 240          | 83/86          |
| SWS600-3  | 3.3V    | 2.97-3.96V   | 55        | 40          | 20          | 120          | 69/71          |
| SWS600-5  | 5V      | 4.5-6V       | 100 (2)   | 40          | 20          | 100          | 74/77          |
| SWS600-12 | 12V     | 9.6-13.2     | 50        | 96          | 48          | 120          | 78/81          |
| SWS600-15 | 15V     | 13.2-18V     | 40        | 120         | 48          | 120          | 80/83          |
| SWS600-24 | 24V     | 20-28.8      | 25        | 120         | 48          | 150          | 81/84          |
| SWS600-36 | 36V     | 28.8-40V     | 16.7      | 180         | 72          | 200          | 81/85          |
| SWS600-48 | 48V     | 40-57.6      | 12.5      | 240         | 96          | 240          | 82/85          |

Notes:

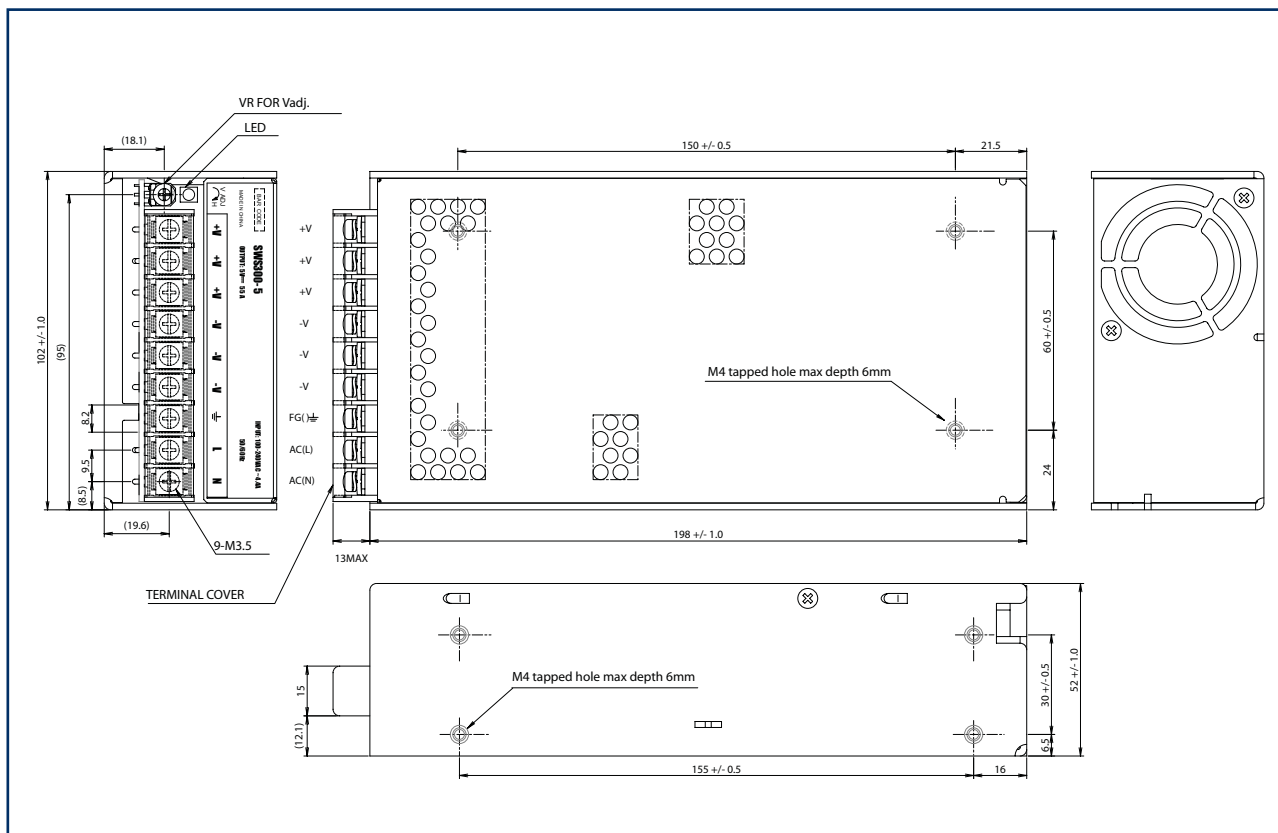
- (2) SWS600-5 has peak rating of 120A for 10s  
(3) 115/230VAC

## Derating

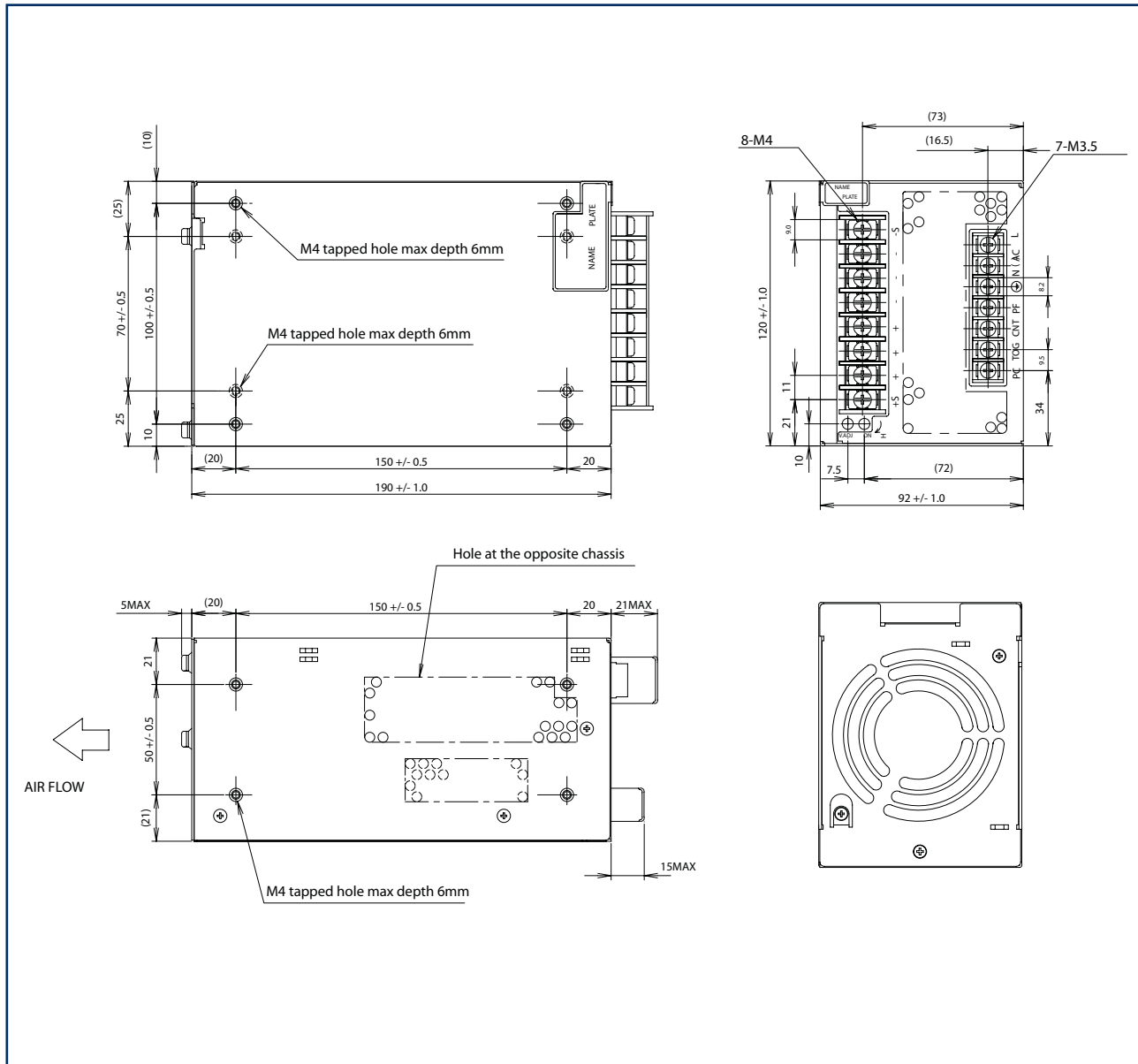
| Model  | 50°C | 55°C  | 60°C  | 65°C |
|--------|------|-------|-------|------|
| SWS300 | 100% | 91.6% | 83.3% | 50%  |
| SWS600 | 100% | 85%   | 70%   | 55%  |

Additional derating required when operating SWS600 with side ventilation holes blocked - see installation manual.

## SWS 300 Outline Drawing



## SWS 600 Outline Drawing



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