



## HWS300P & 600P Series

Peak Power Industrial  
Power Supplies

- Limited Lifetime Warranty
- 300% Peak Power Capability
- Small Package Size
- Universal Input (85 - 265VAC)
- High Efficiency

### Key Market Segments & Applications

Factory Automation  
Process Control  
Semiconductor Fabrication  
Motor and Pump Drives

### HWS300P & 600P Features and Benefits

#### Features

- Limited Lifetime Warranty
- Peak Power Capability
- High Efficiency

#### Benefits

- Lower Cost of Ownership
- Lower cost, smaller size
- Easier system cooling, less power used

### Specifications

| MODEL                         |       | HWS300P                                                                            | HWS600P            |
|-------------------------------|-------|------------------------------------------------------------------------------------|--------------------|
| ITEMS                         |       |                                                                                    |                    |
| Input Voltage range           | -     | 85 - 265VAC (47 - 63Hz) or 120 - 330VDC                                            |                    |
| Input Current (Typ)           | (1) A | 3.6/1.9                                                                            | 7.2/3.7            |
| Inrush Current                | (1) A | 20 / 40                                                                            |                    |
| Power Factor                  | -     | Meets EN61000-3-2                                                                  |                    |
| Temperature Coefficient       | -     | <0.02%/°C                                                                          |                    |
| Overcurrent Protection        | -     | See table on page 2 (Recycle AC or remote on/off to reset)                         |                    |
| Overvoltage Protection        | V     | See table on page 2 (Recycle AC or remote on/off to reset)                         |                    |
| Hold Up Time (Typ)            | ms    | 20                                                                                 |                    |
| Efficiency                    | (1) % | 84 / 87                                                                            |                    |
| Leakage Curr. (@240VAC, 60Hz) | mA    | <0.75mA (Typically 0.2mA at 100VAC)                                                |                    |
| Remote Sense                  | -     | No                                                                                 |                    |
| Indicator                     | -     | Green LED = ON                                                                     |                    |
| Remote on/off                 | -     | Yes                                                                                |                    |
| Line Regulation               | mV    | 24V: 96mV, 36V: 144mV, 48V: 192mV                                                  |                    |
| Load Regulation               | mV    | 24V: 144mV, 36V: 216mV, 48V: 288mV                                                 |                    |
| Ripple & Noise                | mV    | 24V: 150mV, 36V: 200mV, 48V: 350mV                                                 |                    |
| Parallel operation            | -     | No                                                                                 | Yes, up to 2 units |
| DC Good                       | -     | Yes                                                                                |                    |
| Operating Temperature         | -     | -10°C to +70°C, derate linearly to 50% load from 50°C to 70°C                      |                    |
| Storage Temperature           | -     | -30°C to +85°C                                                                     |                    |
| Humidity (non condensing)     | -     | Operating: 10 - 90%RH, Non operating 10 - 95%RH                                    |                    |
| Cooling                       | -     | Internal fan                                                                       |                    |
| Withstand Voltage             | -     | Input to Ground 2.5kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min. |                    |
| Isolation Resistance          | -     | >100MΩ at 25°C & 70%RH, Output to Ground 500VDC                                    |                    |
| Vibration (non operating)     | -     | 10 - 55Hz (1 minute sweep), 19.6m/s² constant X, Y, Z 1 hour                       |                    |
| Shock                         | -     | < 196.1 m/s²                                                                       |                    |
| Safety Agency Certification   | -     | IEC/EN/UL/CSA 60950-1 and 62368-1, EN50178, CE Mark                                |                    |
| Line Dip                      | -     | Complies with SEMI F47 (200VAC line only)                                          |                    |
| Conducted & Radiated EMI      | -     | EN55011 / EN55022, FCC VCCI Class B                                                |                    |
| Immunity                      | -     | IEC61000-4-2, -3, -4, -6 (Level 3), -5, -8 (Level 4), -11                          |                    |
| Weight (Typ)                  | g     | 1,000                                                                              | 1,600              |
| Size (WxHxD)                  | mm    | 61 x 82 x 165                                                                      | 100 x 82 x 165     |
| Warranty                      | -     | Limited Lifetime Warranty                                                          |                    |

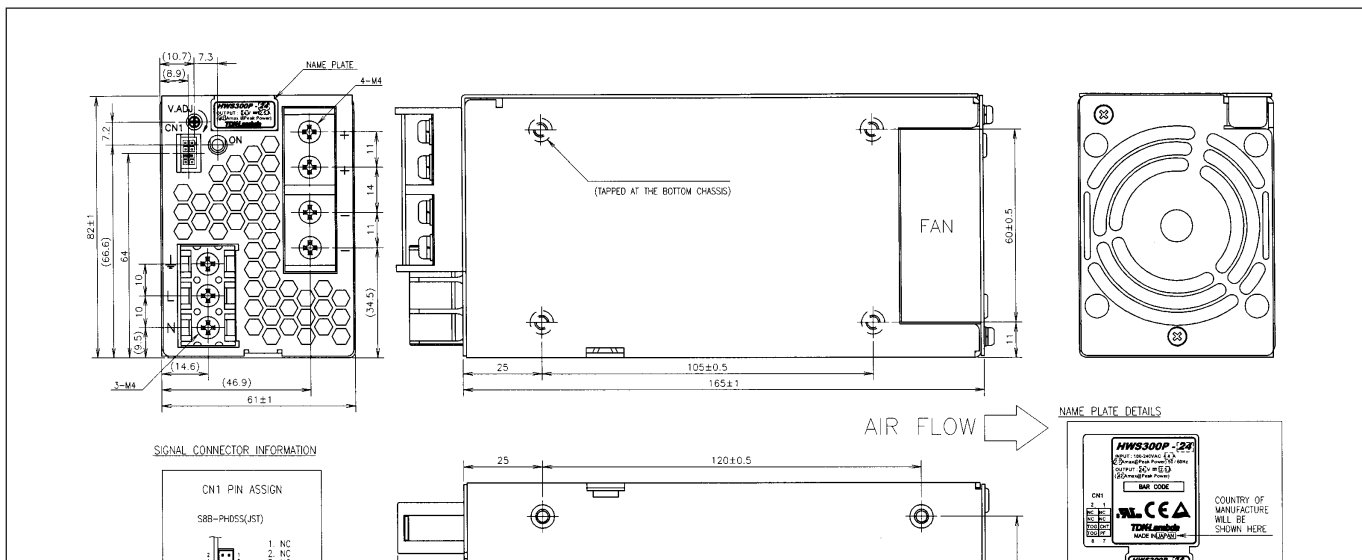
Notes: (1) 100/200VAC

## Model Selector

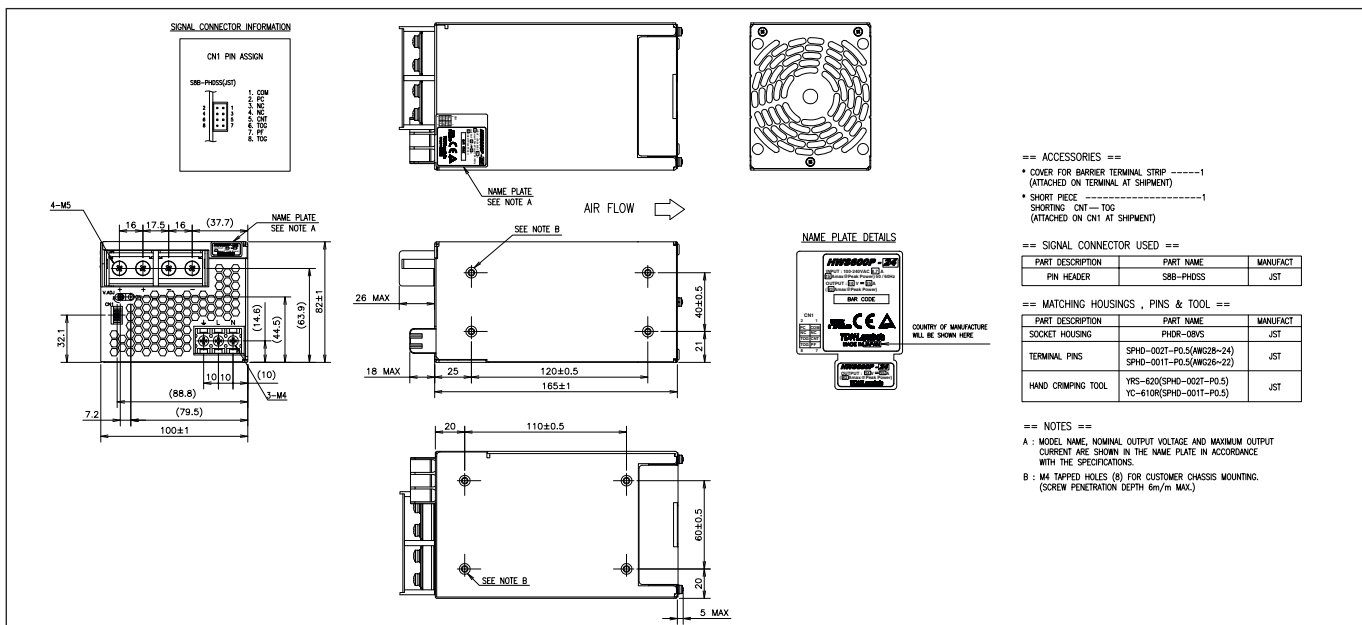
| Model      | Voltage<br>V | Adjust<br>Range<br>V | Max Avg.<br>Current<br>A | Max Avg.<br>Power<br>W | Peak<br>Current A<br>(1,2) | Max Peak<br>Power W<br>(1) | Overcurrent<br>Minimum<br>A | Overvoltage<br>V |
|------------|--------------|----------------------|--------------------------|------------------------|----------------------------|----------------------------|-----------------------------|------------------|
| HWS300P-24 | 24V          | 19.2 - 26.4          | 12.5                     | 300                    | 21 / 42                    | 504 / 1008                 | 21.4 / 42.8                 | 27.6 - 32.4      |
| HWS600P-24 | 24V          | 19.2 - 26.4          | 25                       | 600                    | 40.5 / 83                  | 972 / 1992                 | 41.3 / 84.6                 | 27.6 - 32.4      |
| HWS300P-36 | 36V          | 28.8 - 39.6          | 8.4                      | 302.4                  | 14 / 28                    | 504 / 1008                 | 14.3 / 28.6                 | 41.4 - 48.6      |
| HWS600P-36 | 36V          | 28.8 - 39.6          | 16.7                     | 601.2                  | 27 / 55.5                  | 972 / 1998                 | 27.5 / 56.6                 | 41.4 - 48.6      |
| HWS300P-48 | 48V          | 38.4 - 52.8          | 6.3                      | 302.4                  | 10.5 / 21                  | 504 / 1008                 | 10.7 / 21.4                 | 55.2 - 64.8      |
| HWS600P-48 | 48V          | 38.4 - 52.8          | 12.5                     | 600                    | 20 / 41.5                  | 960 / 1992                 | 20.4 / 42.3                 | 55.2 - 64.8      |

**Notes**  
(1) 100/200VAC  
(2) 200-265VAC Input, 5s maximum on time up to 35% duty cycle (see instruction manual)

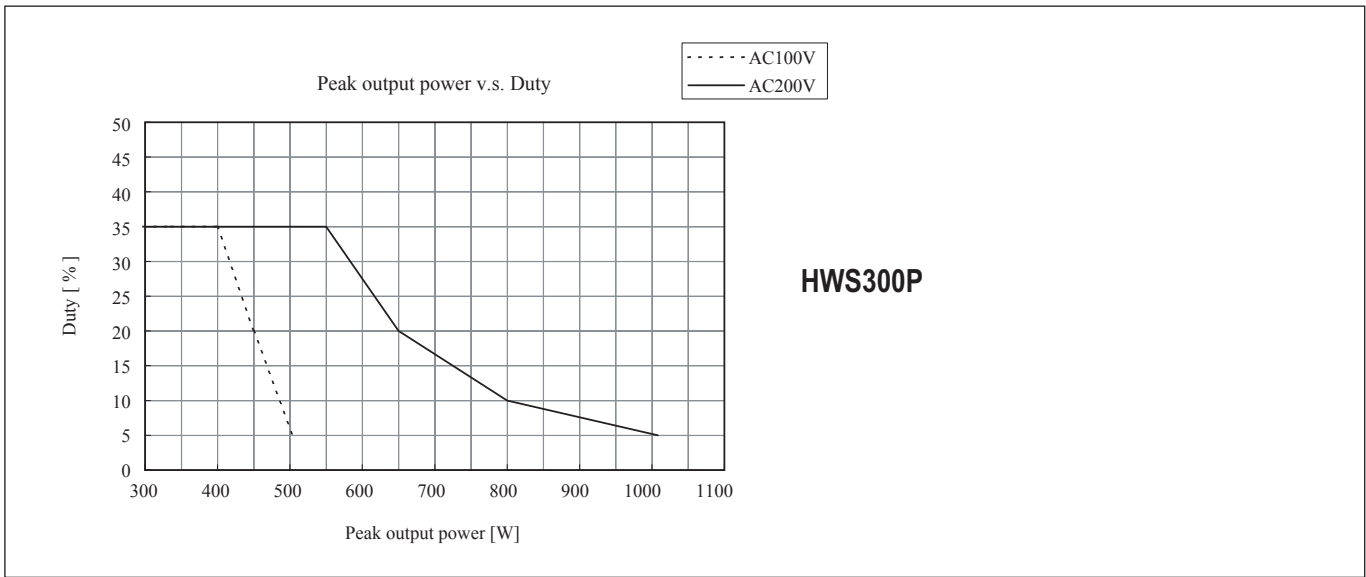
## Outline Drawing HWS300P



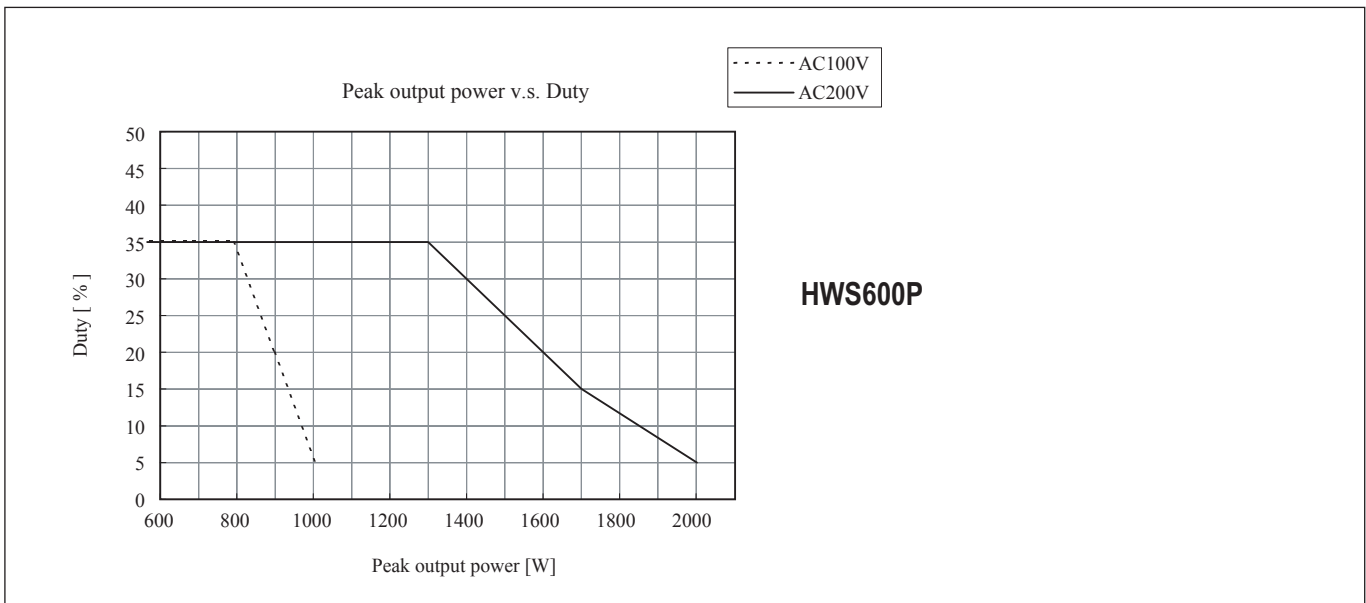
## Outline Drawing HWS600P



HWS300P Peak Output Power vs. Duty Cycle



HWS600P Peak Output Power vs. Duty Cycle



Options

| Suffix | Description                             |
|--------|-----------------------------------------|
| Blank  | HWS300-1500 cover is fitted as standard |
| /A     | Not applicable                          |



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