

# DENSEI-LAMBDA

## EWS15 SPECIFICATIONS

PA710-01-01D

| ITEMS |                               | MODEL  | EWS15-5                                                                                                                     | EWS15-6        | EWS15-9        | EWS15-12       | EWS15-15       | EWS15-18       | EWS15-24       | EWS15-28       | EWS15-48       |  |
|-------|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| 1     | Nominal Output Voltage        | V      | 5                                                                                                                           | 6              | 9              | 12             | 15             | 18             | 24             | 28             | 48             |  |
| 2     | Maximum Output Current        | A      | 3.0                                                                                                                         | 2.5            | 1.7            | 1.4            | 1.1            | 0.9            | 0.7            | 0.6            | 0.35           |  |
| 3     | Maximum Output Power          | W      | 15                                                                                                                          | 15             | 15.3           | 16.8           | 16.5           | 16.2           | 16.8           | 16.8           | 16.8           |  |
| 4     | Efficiency (Typ)              | (*1) % | 70                                                                                                                          | 70             | 72             | 74             | 74             | 75             | 76             | 76             | 78             |  |
| 5     | Input Voltage Range           | (*2) - | 85 ~ 265VAC (47 ~ 440Hz) OR 110 ~ 330VDC<br>AC Input Voltage and Freq. Range shown on Panel Label : 85 ~ 250VAC (47 ~ 63Hz) |                |                |                |                |                |                |                |                |  |
| 6     | Input Current (Typ)           | (*6) - | 0.4A / 0.2A                                                                                                                 |                |                |                |                |                |                |                |                |  |
| 7     | In-rush Current (Typ)         | (*8) - | 14A at 100VAC, 28A at 200VAC                                                                                                |                |                |                |                |                |                |                |                |  |
| 8     | Output Voltage Range (Typ)    | -      | ±10%                                                                                                                        |                |                |                |                |                |                |                |                |  |
| 9     | Maximum Ripple & Noise (*11)  | mV     | 120                                                                                                                         | 120            | 150            | 150            | 150            | 150            | 200            | 200            | 250            |  |
| 10    | Maximum Line Regulation (*3)  | mV     | 20                                                                                                                          | 24             | 36             | 48             | 60             | 72             | 96             | 112            | 192            |  |
| 11    | Maximum Load Regulation (*4)  | mV     | 40                                                                                                                          | 50             | 70             | 100            | 120            | 140            | 150            | 160            | 380            |  |
| 12    | Over Current Protection (*5)  | A      | 3.15 ~                                                                                                                      | 2.63 ~         | 1.79 ~         | 1.47 ~         | 1.16 ~         | 0.95 ~         | 0.74 ~         | 0.63 ~         | 0.37 ~         |  |
| 13    | Over Voltage Protection (*7)  | VAC    | 5.75 ~<br>6.75                                                                                                              | 6.90 ~<br>8.10 | 10.4 ~<br>12.2 | 13.8 ~<br>16.2 | 17.3 ~<br>20.3 | 20.7 ~<br>24.3 | 27.6 ~<br>32.4 | 32.2 ~<br>37.8 | 55.2 ~<br>64.8 |  |
| 14    | Hold-up Time (*6)             | -      | More than 16ms / 100ms                                                                                                      |                |                |                |                |                |                |                |                |  |
| 15    | Remote Sensing                | -      | -                                                                                                                           |                |                |                |                |                |                |                |                |  |
| 16    | Remote ON/OFF Control         | -      | -                                                                                                                           |                |                |                |                |                |                |                |                |  |
| 17    | Parallel Operation            | -      | -                                                                                                                           |                |                |                |                |                |                |                |                |  |
| 18    | Series Operation              | -      | NOT POSSIBLE                                                                                                                |                |                |                |                | POSSIBLE       |                |                |                |  |
| 19    | Operating Temperature         | -      | -10°C ~ 60°C -10°C...70%, 0°C ~ 50°C...100%, 60°C...50%                                                                     |                |                |                |                |                |                |                |                |  |
| 20    | Operating Humidity            | -      | 30% ~ 90% RH                                                                                                                |                |                |                |                |                |                |                |                |  |
| 21    | Storage Temperature           | -      | -30°C ~ 85°C                                                                                                                |                |                |                |                |                |                |                |                |  |
| 22    | Storage Humidity              | -      | 10% ~ 95% RH                                                                                                                |                |                |                |                |                |                |                |                |  |
| 23    | Cooling                       | -      | Convection Cooling                                                                                                          |                |                |                |                |                |                |                |                |  |
| 24    | Temperature Coefficient (Typ) | -      | 0 ~ 60°C...1%, -10°C ~ 60°C...1.5%                                                                                          |                |                |                |                |                |                |                |                |  |
| 25    | Withstand Voltage (*9)        | -      | Input-Output... 3.75KV, Input-Chassis...2.5KV for 1 min. @ 20mA                                                             |                |                |                |                |                |                |                |                |  |
| 26    | Isolation Resistance (*10)    | -      | More than 100MΩ at DC 500V at 25°C and 70% RH for 1 min.                                                                    |                |                |                |                |                |                |                |                |  |
| 27    | Vibration                     | -      | 2g                                                                                                                          |                |                |                |                |                |                |                |                |  |
| 28    | Shock                         | -      | 20g                                                                                                                         |                |                |                |                |                |                |                |                |  |
| 29    | Weight                        | -      | 270gm                                                                                                                       |                |                |                |                |                |                |                |                |  |
| 30    | Size (W.H.D)                  | -      | 35mm X 97mm X 90mm ( Refer to Outline Dwg )                                                                                 |                |                |                |                |                |                |                |                |  |

### NOTES :

- \*1 : At 100VAC and Maximum Output Power.
- \*2 : For cases where conformance to various safety specs (UL, CSA, VDE, etc.) are required, Input Voltage and Frequency Range will be 85 ~ 250VAC, 47 ~ 63Hz.
- \*3 : From 85 ~ 265VAC or 110 ~ 330VDC.
- \*4 : From No load to Maximum load. Constant Input Voltage.
- \*5 : Foldback current limiting with automatic recovery.
- \*6 : At 100VAC /200VAC, 15W Output Power.
- \*7 : Inverter shut-down method, manual reset.
- \*8 : Typical value at cold start Ta = 25°C.
- \*9 : 3.75KVAC --- Input - Output with FG - ACG connected.  
2.5 KVAC --- Input - Chassis with FG - ACG connected.
- \*10 : Output - Chassis.
- \*11 : JEITA RC-9131 probe and 100MHz bandwidth oscilloscope.