



OLW250P701N1A Flickerless Power supply

PSOV250701B



■ Model Name : PSOV250701B
OLW250P701N1A

■ Features :

- Flickerless LED control gear
- Independent type LED control gear & Class II construction
- Full-protection provided: OCP/OVP/OTP/SCP/OLP
- Compliant with CB, CE, KC safety requirements for LED lighting
- Compliant with IP 67(Ingress Protection rating)
- Wide Vout : 18 ~ 33Vdc
- Non dimming
- Constant Current type



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■ Electrical specification

| No. | Item | | Min | Typ | Max | Unit | Remark |
|-----|---------------------------------|-------------------|------|-------|------|-------|-------------------------------|
| 1 | Nominal Input Voltage | | 110 | 220 | 240 | Vac | |
| 2 | Variable Input Voltage | | 99 | - | 264 | Vac | |
| 3 | Maximum Input Current | | - | - | 0.35 | Arms | |
| 4 | Nominal Input Frequency | | 47 | 50/60 | 63 | Hz | |
| 5 | Power Factor (PF) | | 90 | - | - | % | 1) |
| 6 | Total Harmonic Distortion (THD) | | - | - | 13 | % | 1) |
| 7 | Inrush Current | | - | - | 77 | A | |
| 8 | Electrical Efficiency | | 83.5 | 87 | - | % | 2) |
| 9 | Turn-on Delay | | - | - | 1 | sec | @Cold Start, 3) |
| 10 | LED Output Current | | 665 | 700 | 735 | mA | @30Vdc Load |
| 11 | LED Output Current Ripple | | - | - | 70 | mA | 20MHz Bandwidth, 2) |
| 12 | LED Output Voltage | | 18 | 30 | 33 | Vdc | |
| 13 | 12V Output Voltage | | - | - | - | Vdc | N.A |
| 14 | 12V Output Voltage Ripple | | - | - | - | Vdc | N.A |
| 15 | 12V Output Current | | - | - | - | mA | N.A |
| 16 | No Load STBY Power Dissipation | | - | - | 1 | W | @LED Open |
| 17 | Output Open LED Protection | | - | - | 54 | Vpeak | @Vpeak |
| 18 | Output Short Circuit Protection | | - | - | - | | Auto-recovery |
| 19 | Over-temperature Protection | | - | - | - | °C | Auto-recovery |
| 20 | Storage Temperature | | -40 | 25 | 80 | °C | |
| 21 | Operating Temperature | | -40 | 25 | 50 | °C | |
| 22 | Case Temperature (Tc) | | - | - | 85 | °C | |
| 23 | Humidity | | 20 | - | 85 | % | |
| 24 | Insulation Resistance | | 10 | - | - | MΩ | 500Vdc between Input & Output |
| 25 | Dielectric Withstand Voltage | Input to Output | 3.75 | - | - | Vac | Apply for 1 minute 8) |
| 26 | | Input to Case | 3.75 | - | - | Vac | |
| 27 | | Output to Case | 0.5 | - | - | Vdc | |
| 28 | Surge | Line to Line | 4 | 6 | - | kV | 4) |
| 29 | | Line to Ground | 6 | 8 | - | kV | 4) 5) |
| 30 | ESD | Contact Discharge | 4 | - | - | kV | 6) |
| 31 | | Air Discharge | 8 | - | - | kV | 6) 7) |

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Notes

- 1) Test Condition: 99/264Vac 50/60Hz Input, Typical LED Load, Ambient Temperature 25°C, Measure at the cable-end
- 2) Test Condition: 220Vac 60Hz Input, LED Max. Load, 30min Aging, Ambient Temperature 25°C
- 3) At least, Turn-On Time should be continued for 1sec.
- 4) Surge Specification above is higher than IEC/EN 61000-4-5 (Differential 1kV, Common 2kV)
- 5) The metal case of the LED driver must be connected with F.G
- 6) ESD Specification above meets IEC/EN 61000-4-2 Requirements (Contact 4kV, Air 8kV)
- 7) The metal case of the driver should be grounded.
- 8) Determined by Paragraph 34.1.2, UL1310 or Paragraph 8.4.2, UL8750, EN61347-1, EN61347-2-13

Safety Standards

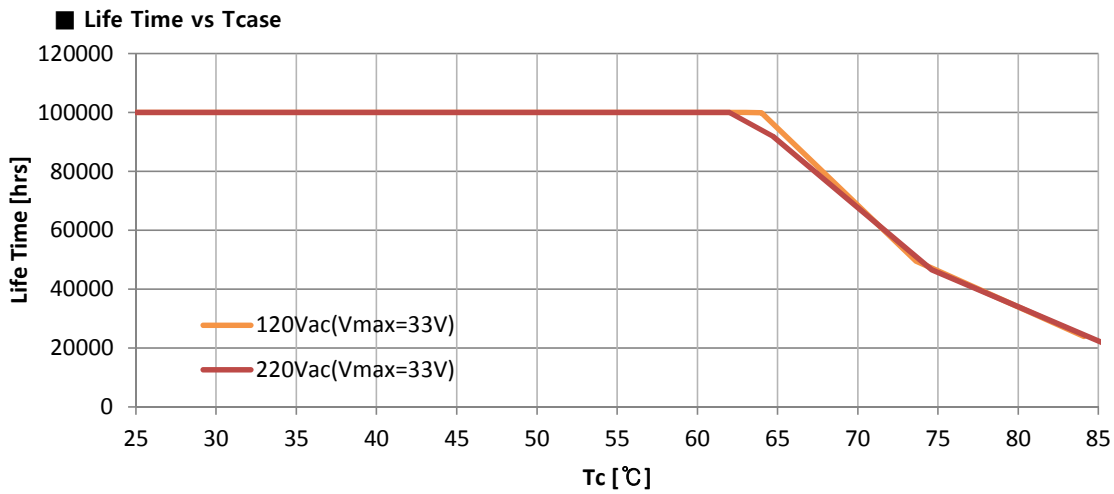
Including safety requirements above, the LED driver complies with the following safety standards:

| No. | Item | Description |
|-----|-----------------------------------|---|
| 1 | IEC/EN 61347-1, IEC/EN 61347-2-13 | IEC/EN Safety Standards |
| 2 | KC | K61347-1, K61347-2-13, K62384 |
| 3 | IEC/EN 55015 | Conducted and Radiated Emission Test |
| 4 | IEC/EN 61000-3-2 | Harmonic current emissions: Class C |
| 5 | IEC/EN 61000-3-3 | Voltage Fluctuations and Flicker |
| 6 | IEC/EN 61000-4-2 | Electrostatic Discharge (ESD): Contact 4kV, Air 8kV |
| 7 | IEC/EN 61000-4-3 | Radio-frequency Electromagnetic Fields |
| 8 | IEC/EN 61000-4-4 | Electrical Fast Transients (EFT) |
| 9 | IEC/EN 61000-4-5 | Surges: Differential 1kV, Common 2kV |
| 10 | IEC/EN 61000-4-6 | Injected Currents |
| 11 | IEC/EN 61000-4-8 | Power Frequency Magnetic Fields |
| 12 | IEC/EN 61000-4-11 | Voltage Dips and Short Interruptions |
| 13 | IP GRADE | IP 67 |

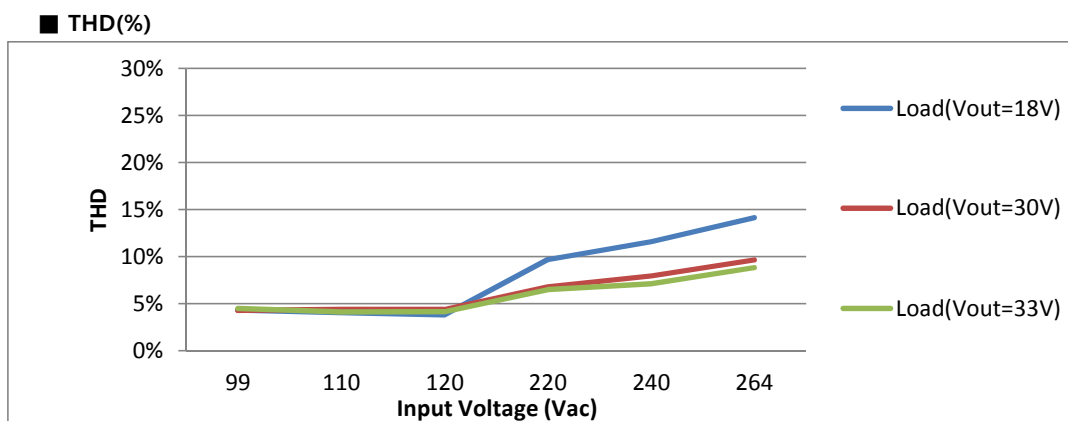
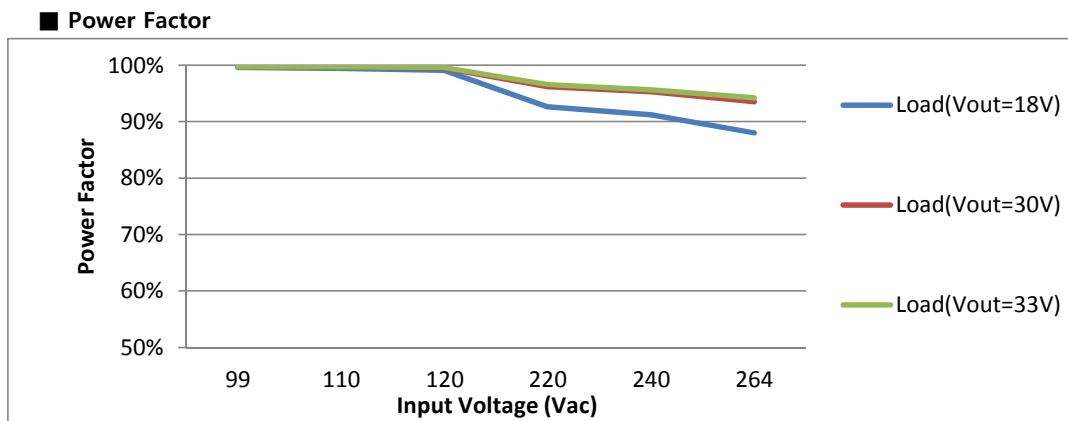
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Remark) LED Driver has a rated lifetime of 50,000 hours @ T_c ≤ 70°C

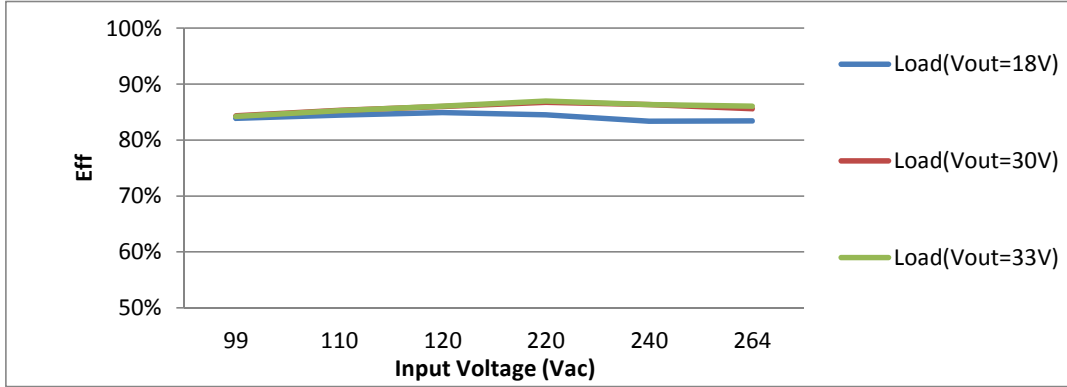


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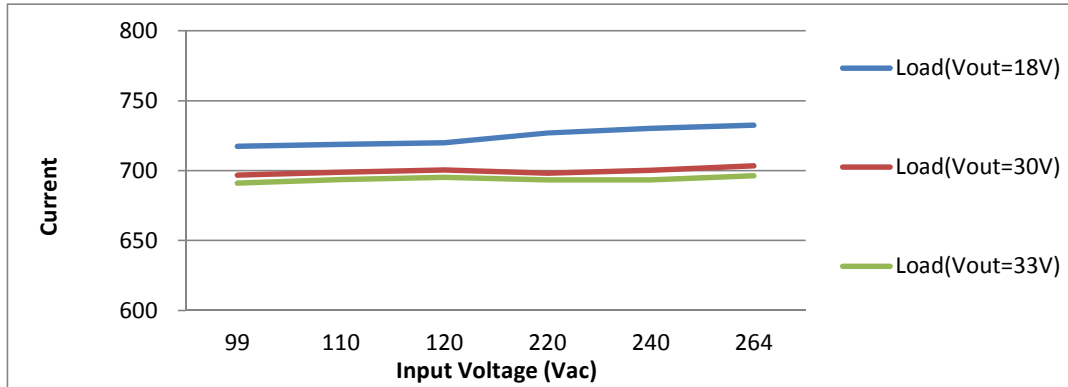
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■ Efficiency(%)



■ Output Current(mA)

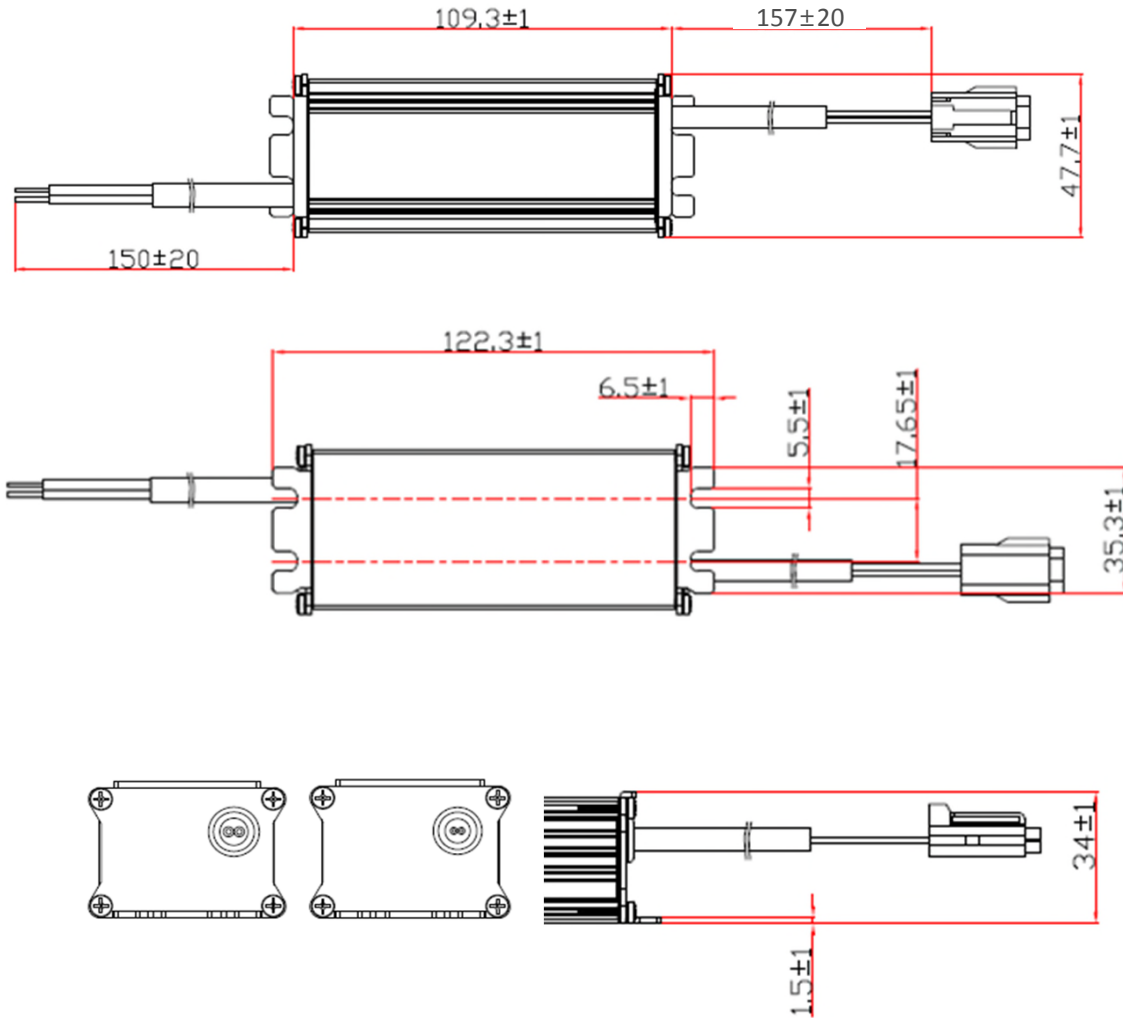


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■ Mechanical Specification



■ Enclosure Size

| Unit | Width | Length | Height | Mount Length | Overall Length |
|------|-------|--------|--------|--------------|----------------|
| mm | 47.7 | 109.3 | 34.0 | 122.3 | 416.3 |
| inch | 1.88 | 4.30 | 1.34 | 4.81 | 16.39 |

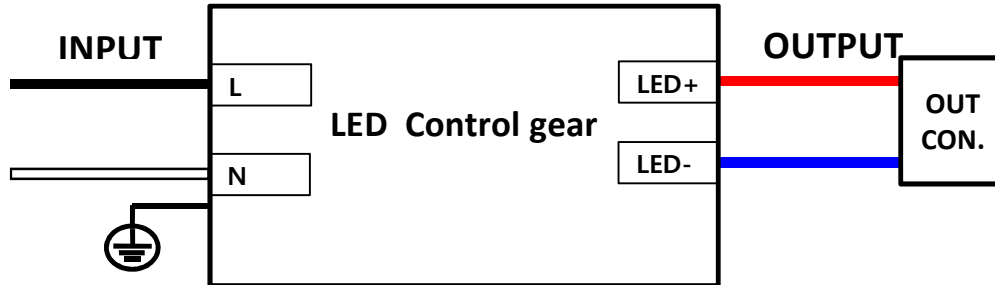
■ Case Material : Aluminium

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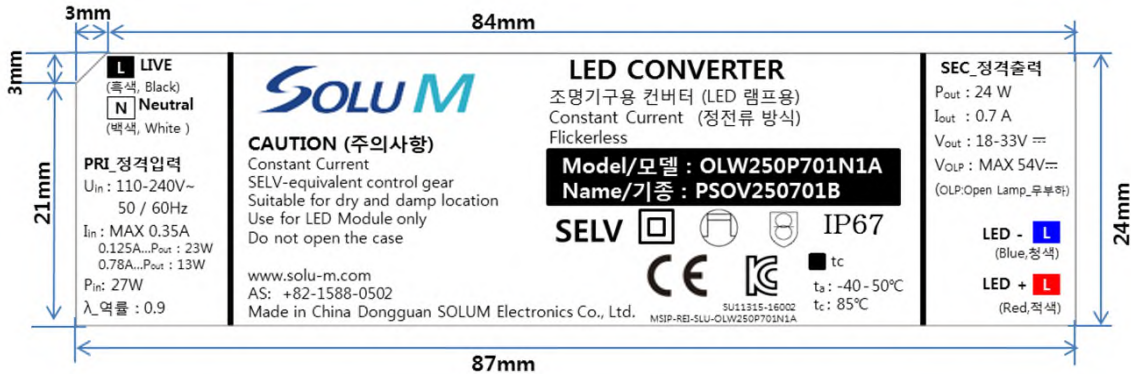
■ Wiring Diagram



■ Out connector description

| Classification | Part No. | Connector (Cable end) | Connector (Opposite side) |
|----------------|-------------|--|--|
| Type#1 | PSOV250701A | N.A | N.A |
| Type#2 | PSOV250701B | MG610320(KET) | MG610322(KET) |
| Type#3 | PSOV250701C | 02R-JWPF-VSLE-S(JST) or 02R-JWPKF-VKLE-S(JST) | 02T-JWPF-VSLE-S(JST) or 02T-JWPKF-VKLE-S(JST) |

■ Rating Label Drawing

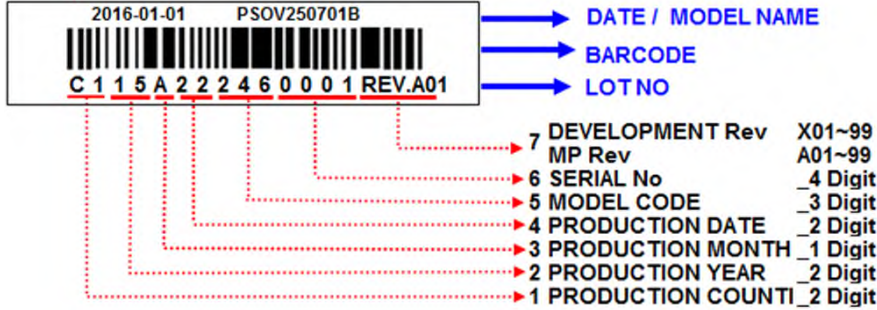


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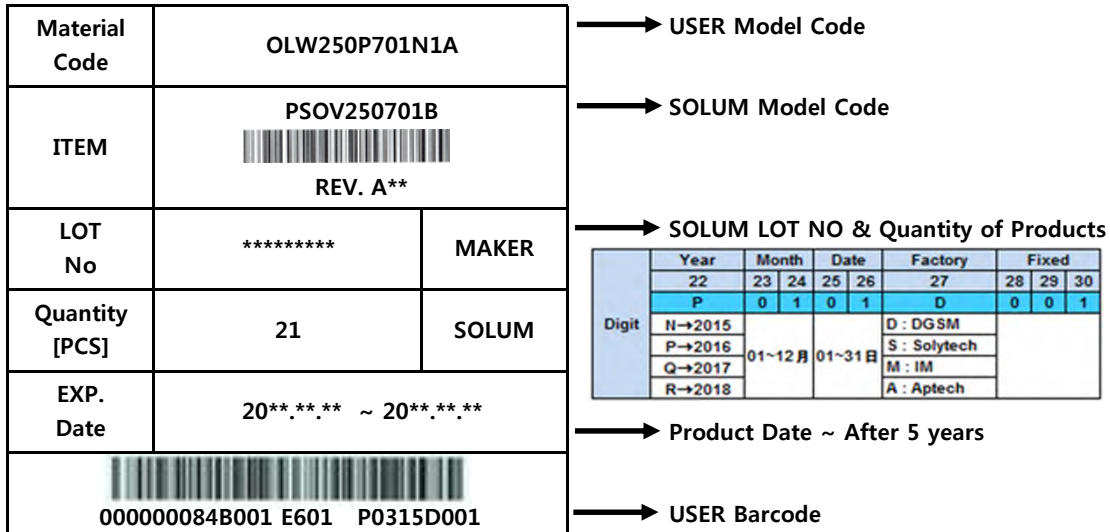
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■ Barcode Label



| Mean | 1.PLANT | 2. YEAR | 3. MONTH | 4. DATE | 5. CODE | 6. SERIAL | 7. Revision No |
|-------|---|---------|-----------|---------|---------|----------------|--|
| Digit | 2 | 2 | 1 | 2 | 3 | 4 | |
| EX. | C1 : DGSM C2 : Solytech C3 : IM C4 : Ap tech K1 : Korea | 00~99 | 1...9,A,B | 01~31 | 246 | 0001.. 9999 | X01~99 : DEVELOPMENT A01~99: MP |

■ Box Label



| Digit | Quantity Per BOX | | | | | | | | | BOX Size | Serial No. | | | Blank | Vender Code | | | Blank | Year | Month | Date | Factory | Fixed | | | | | | | | |
|-------|------------------|---|---|---|---|---|---|---|---|----------|-----------------------|---------|----|-------|-------------|----|----|-------|------|-------|------|---------|-------|----|----|----|----|----|----|----|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | B | 0 | 0 | 1 | E | 6 | 0 | 1 | | | | P | 0 | 1 | 0 | 1 | D | 0 | 0 | 1 | | |
| | | | | | | | | | | | A : Pallet B : BOX | 001~999 | | | | | | | | | | | | | | | | | | | |
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