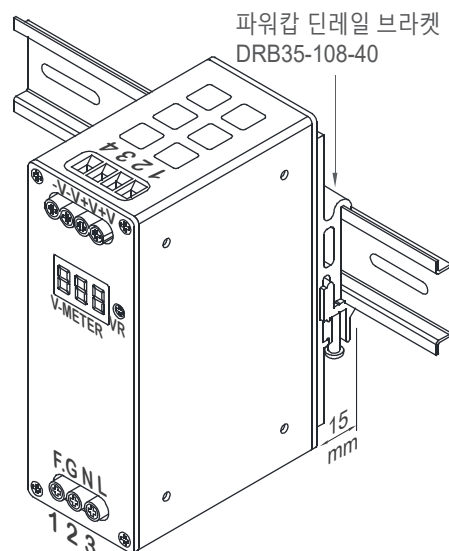


UP65-F-□□VD
Vertical type+
Dinrail bracket
126x98x46mm



-FEATURES

- UP65-F-□□VD (126x98x46mm) Vertical case+Dinrail bracket.
- FND-Indicated Volt-Meter (전압메터 내장).
- Suitable for medical & IT (의료기기, 정보기기, 산업기기).
- Compact size .
- Universal AC Input : 90~264Vac(130~380Vdc), free-voltage.
- Protections: Short circuit, Over load, Over voltage, Over temperature.
- Adjustable output voltage(about 3%).
- 5 years warranty(Refer to derating curve).
- High efficiency.
- RoHs directive.

UP 65- F-24VD

Series name _____

Peak or Max wattage _____

Input voltage _____

F= Free voltage(90~264Vac)
H= 220Vac(180~264Vac)

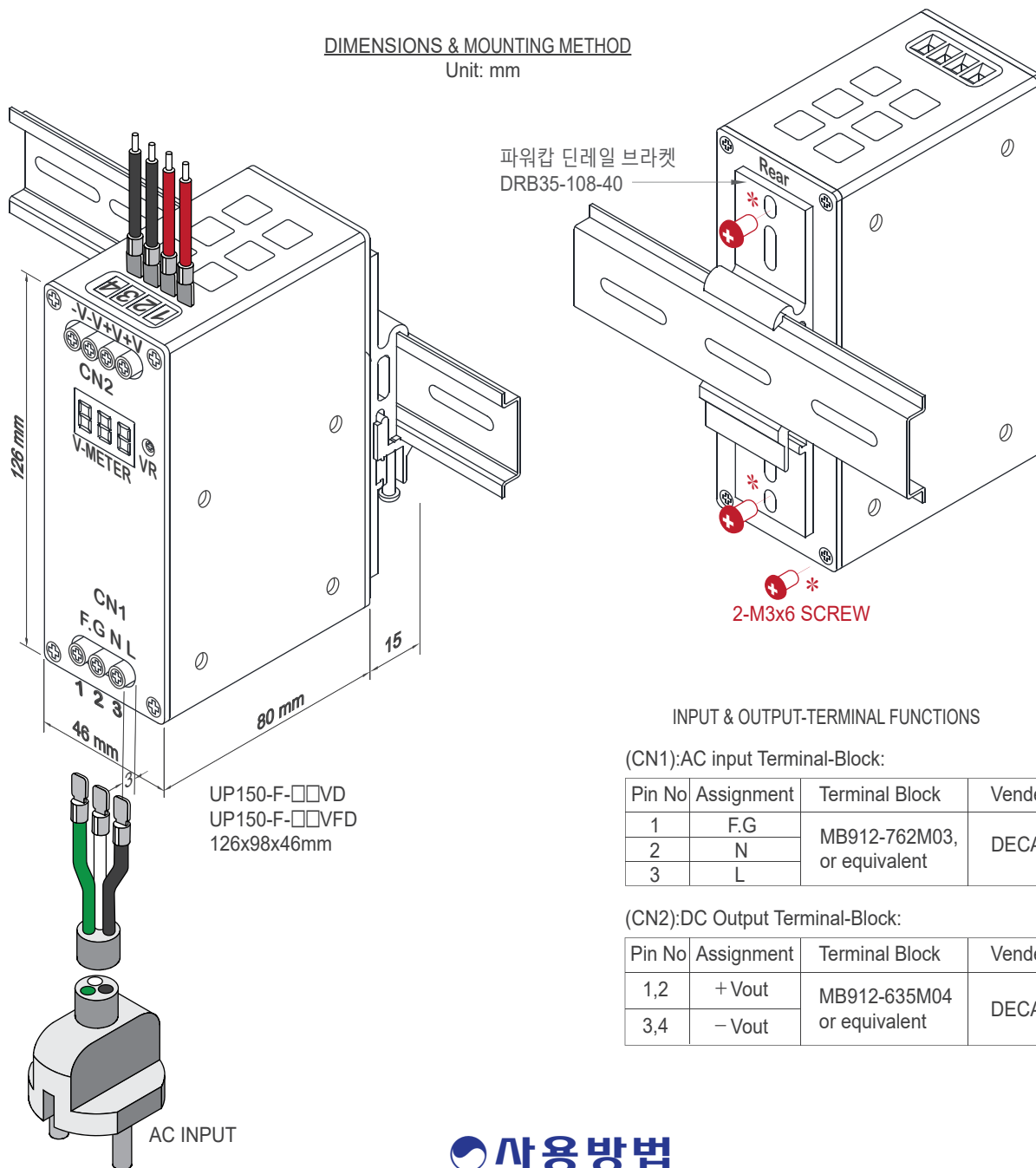
Output voltage _____

D= Dinrail bracket
H= Horizontal case
V= Vertical case

| ① UP65-F-□□VD Input Range: 90~264Vac(130~380Vdc) | | | | | | KC 전자파 적합성 KS C9832, KS C9835 | CB Certification IEC 60601-1, IEC 60601-1-2(의료기기) IEC 62368-1(정보기기) | CE Declaration of Conformity EN 60601-1, EN 60601-1-2(의료기기) EN 62368-1(정보기기) |
|--|-------|-------|--------|-------|------------|----------------------------------|--|---|
| Model | V-out | I-out | I-peak | P-out | Efficiency | | | |
| UP65-F-05VD | 5V | 8.0A | 10.0A | 40.0W | 80% | ○ | | |
| UP65-F-07VD | 7V | 7.0A | 8.0A | 49.0W | 82% | ○ | | |
| UP65-F-09VD | 9V | 5.5A | 6.5A | 49.0W | 85% | ○ | | |
| UP65-F-12VD | 12V | 4.5A | 5.4A | 54.0W | 85% | ○ | ○ | ○ |
| UP65-F-15VD | 15V | 3.6A | 4.3A | 54.0W | 85% | ○ | ○ | ○ |
| UP65-F-24VD | 24V | 2.3A | 2.7A | 55.0W | 88% | ○ | ○ | ○ |
| UP65-F-28VD | 28V | 1.9A | 2.3A | 53.0W | 88% | ○ | | |
| UP65-F-36VD | 36V | 1.5A | 1.8A | 54.0W | 88% | ○ | | |
| UP65-F-48VD | 48V | 1.1A | 1.3A | 52.0W | 88% | ○ | | |
| UP65-F-75VD | 75V | 0.7A | 0.8A | 60.0W | 88% | ○ | | |

DIMENSIONS & MOUNTING METHOD

Unit: mm



INPUT & OUTPUT-TERMINAL FUNCTIONS

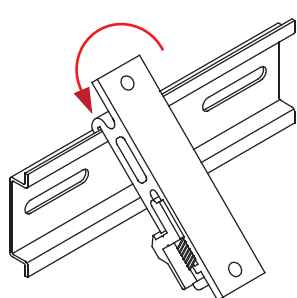
(CN1):AC input Terminal-Block:

| Pin No | Assignment | Terminal Block | Vender |
|--------|------------|--------------------------------|--------|
| 1 | F.G | MB912-762M03, or equivalent | DECA |
| 2 | N | | |
| 3 | L | | |

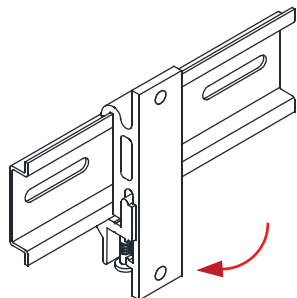
(CN2):DC Output Terminal-Block:

| Pin No | Assignment | Terminal Block | Vender |
|--------|------------|-------------------------------|--------|
| 1,2 | + Vout | MB912-635M04 or equivalent | DECA |
| 3,4 | - Vout | | |

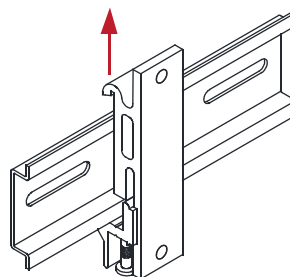
● 사용방법



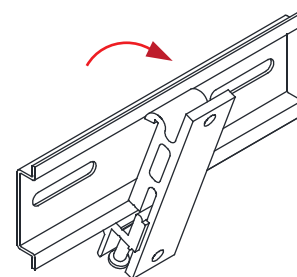
01 브라켓 홈을 단레일에
걸어준다.



02 브라켓 아래부분을 눌러주면
딱! 소리가 나며 장착된다.



03 브라켓을 위로 밀어주면
공간이 생긴다.



04 위쪽으로 밀어 올린 상태에서
당겨주면 분리 된다.

◆장착방법

◆분리방법

Environmental & Isolation Specifications

| Parameter | Min | Typ | Max | Unit | Notes |
|--------------------------------------|-----|-------|-----|----------|------------------------|
| Operating Temperature | -10 | - | 50 | °C | *, Bottom Plate < 70°C |
| Storage Temperature | -40 | - | 85 | °C | |
| Operating Humidity(Non condensing) | 10 | - | 95 | % | |
| Isolation Resistance(Input : Output) | 100 | - | - | Mega ohm | At 500VDC |
| Isolation Voltage(Input : Output) | | 4,000 | | VAC | At 10mA |
| Isolation Voltage(Input : F.G) | | 2,000 | | VAC | At 10mA |
| Isolation Voltage(F.G : Output) | | 1,500 | | VAC | At 10mA |
| Operating Altitude | | 2,000 | | Meters | |

Specifications Input Characteristics

| Parameter | Min | Typ | Max | Unit | Notes |
|---|-----|----------|-----|------|----------|
| Operating Input Voltage Range | 90 | 220 | 264 | VAC | |
| Frequency Range | 47 | 50/60 | 63 | Hz | |
| Input Current at 115/220VAC (UP20□□) | - | 0.4/0.2 | - | A | Max Load |
| Input Current at 115/220VAC (UP40□□) | - | 0.6/0.3 | - | A | Max Load |
| Input Current at 115/220VAC (UP65□□) | - | 1.2/0.6 | - | A | Max Load |
| Input Current at 115/220VAC (UP150□□) | - | 1.6/0.8 | - | A | Max Load |
| Input Current at 115/220VAC (UP300□□) | - | 3.2/1.6 | - | A | Max Load |
| Input Current at 115/220VAC (UP600□□) | - | 6.2/3.1 | - | A | Max Load |
| Input Current at 115/220VAC (UP1,000□□) | - | 10.0/5.0 | - | A | Max Load |
| Inrush Current (Cold start at 220VAC) | | | 50 | A | |
| Over Current Protection(Rated Pout) | 110 | - | - | % | Hiccup |
| Leakage Current(at 220VAC) | | | | mA | |

Specifications Output Characteristics

| Parameter | Min | Typ | Max | Unit | Notes |
|--|-----|-----|----------|------|---------------------|
| Output Voltage Setting Tolerance | - | - | ±2 | % | |
| Line Regulation | - | - | ±0.5 | % | |
| Load Regulation | - | - | ±1 | % | |
| Output Power | - | - | - | W | Refer to table |
| Output Ripple & Noise (220VAC max-load) | - | - | 1% of Vo | mV | B/W 100Mhz, 1uF Cap |
| Dynamic Load Response | - | - | 5% of Vo | mV | |
| Turn on Time at 220VAC | - | 100 | - | mS | |
| Hold-up Time at 220VAC | - | 50 | - | mS | |


*, Refer to output load derating curve.

Dimensions & Weight

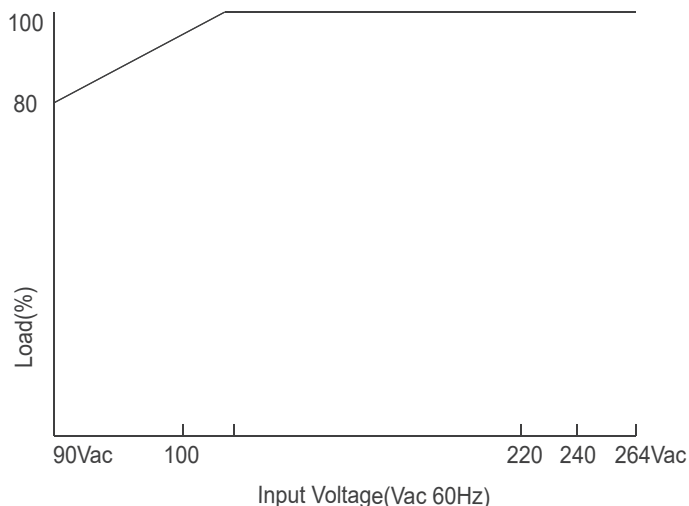
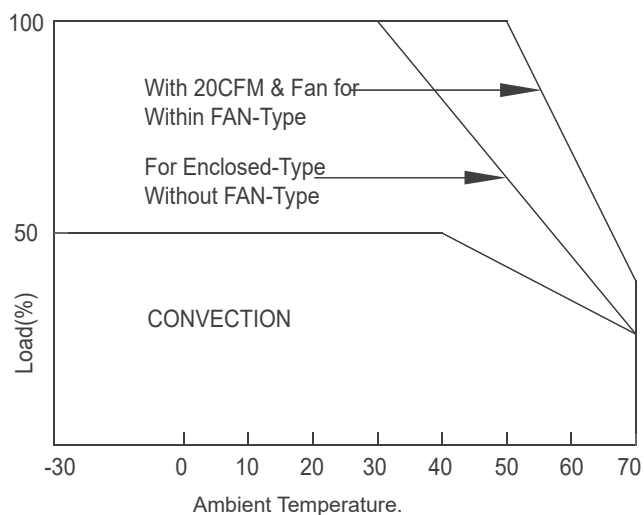
| | Dimensions(mm) | Weight(gram) |
|-----------|-----------------------|--------------|
| UP20C/T | 63 x 42 x H22mm | 43g |
| UP20CU/TU | 78 x 46 x H25mm | 80g |
| UP20PU | 66 x 46 x H25mm | 100g |
| UP40C/T | 76 x 47 x H24mm | 75g |
| UP40CU/TU | 92 x 51 x H26mm | 115g |
| UP40PU | 80 x 50.2 x H27mm | 135g |
| UP65C/T | 102 x 51 x H32mm | 140g |
| UP65CU/TU | 115 x 60 x H38mm | 265g |
| UP65H | 126 x 80 x H46mm | 420g |
| UP65V | 46 x 80 x H126mm | 420g |
| UP65VD | 46 x (80+15) x H126mm | 480g |
| - | - | - |

| | Dimensions(mm) | Weight(gram) |
|--------------|-----------------------|--------------|
| UP150C/T | 115 x 51 x H32mm | 180g |
| UP150CU/TU | 115 x 60 x H38mm | 320g |
| UP150CUF/TUF | 115 x 60 x H(38+15)mm | 360g |
| UP150HF | 126 x 80 x H46mm | 480g |
| UP150VF | 46 x 80 x H126mm | 480g |
| UP150VFD | 46 x (80+15) x H126mm | 530g |
| UP300CUF/TUF | 140 x 86 x H46mm | 580g |
| UP300HF | - | - |
| UP300VF | - | - |
| UP300VFD | - | - |
| UP600TUF | 170 x 100 x H46mm | 880g |
| UP1000TUF | 240 x 120 x H46mm | 1400g |

SAFETY & EMC

| | | |
|------------------------|--|---|
| Safety Standards(안전시험) | EN/EN62368-1, IEC/EN60601-1 (*UP65-F-12/15/24 only) |  <p>IEC 60601-1 IEC 60601-1-2 IEC 62368-1</p> <p>EN 60601-1 EN 60601-1-2 EN 62368-1</p> <p>R-R-pcc-UP65-F-□□</p> |
| EMC Emission(방출시험) | IEC/EN60601-1-2, IEC/EN55011(CISPR11) Class B, IEC/EN61000-3-2,-3 (*UP65-F-12/15/24 only), KS C 9832 | |
| EMC Immunity(내성시험) | IEC/EN61000-4-2,-3,-4,-5,-6,-8,-11(*UP65-F-12/15/24 only), KS C 9610-4-2,-3,-4,-5,-6,-8,-11 | |

DERATING CURVE



BLOCK DIAGRAM

