

PBC Series

10-150 WATTS - AC/DC SINGLE & MULTIPLE OUTPUT

FEATURES

- High reliability.
- Approval: ETS/EMC/CE.
- 100% full load burn-in test.
- Protections: overload/ over voltage/ short circuit.



SPECIFICATIONS

| INPUT | |
|-------------------------------|---|
| Voltage | 85-264VAC (PBC-10-SL, PBC-20-SL, PBC-30-SF, PBC-40-SL, PBC-60-SL, PBC-10-DL, PBC-20-DL, PBC-40-DL, PBC-60-DL, PBC-10-TL, PBC-20-TL, PBC-40-TL, PBC-60-TL). 85-132/170-264VAC (SW select) (PBC-50-SF, PBC-70-SF, PBC-100-SF, PBC-150-SL, PBC-30-DF, PBC-50-DF, PBC-70-DF, PBC-100-DF, PBC-30-TF, PBC-50-TF, PBC-70-TF, PBC-100-TF). 170-264VAC (PBC-35-QL, PBC-55-QL) |
| Frequency | 47-63Hz. |
| Inrush current | Cold start, 15A/115V, 30A/230V. |
| Input leakage current | < 0.7mA /230VAC. |
| Isolation | I/P – O/P: 3KVAC / 1min I/P – F/G: 1.5KVAC / 1min O/P – F/G: 0.5KVAC/ 1min |
| OUTPUT | |
| Voltage | See table. |
| Current | See table. |
| Line regulation (full load) | ± 0.5%. |
| Load regulation | 0.5% max |
| Voltage adjustment | ± 10%. |
| Output overload | 110% to 150% |
| Protection | 110% to 130% (PBC100, PBC150). |
| Output overvoltage protection | 115% to 150%. |
| Rise time | 50ms @ full load (typical). |
| Hold up time | 20ms @ full load (typical). |

| ENVIRONMENTAL | |
|-----------------------|--|
| Operating temperature | -10°C to 50°C. |
| Storage temperature | -20°C to 85°C. |
| Operating humidity | 20% - 93% RH, non-condensing. |
| Storage humidity | 20% - 95% RH, non-condensing. |
| MTBF | 100,000 hours. |
| Cooling | Convection cooled. |
| STANDARDS | |
| Safety standards | GB4943, UL60950, EN60950 |
| C-Tick | AS/NZS CISPR11 Group 1, Class A |
| EMC standards | EN55024, EN61000-3-2-3, EN61000-4-2,3,4,5,6,8,11 |
| EMI standards | GB9254, EN55022 Class B |

OPEN FRAME & ENCLOSED

PBC Series

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OPEN FRAME & ENCLOSED

SELECTION TABLE

| MODEL NUMBER | OUTPUT1 | | RIPPLE NOISE | OUTPUT2 | | RIPPLE NOISE | OUTPUT3 | | RIPPLE NOISE | OUTPUT4 | | RIPPLE NOISE | EFFI | POWER |
|------------------|---------|----------|--------------|---------|-----------|--------------|---------|--|--------------|---------|--|--------------|------|-------|
| PBC-10-5-SL | 5V | 2.0A | 60mV | | | | | | | | | | 65% | 10W |
| PBC-10-12-SL | 12V | 0.8A | 80mV | | | | | | | | | | 72% | 10W |
| PBC-10-15-SL | 15V | 0.7A | 100mV | | | | | | | | | | 73% | 10W |
| PBC-10-24-SL | 24V | 0.4A | 100mV | | | | | | | | | | 76% | 10W |
| PBC-20-5-SL | 5V | 4.0A | 60mV | | | | | | | | | | 72% | 20W |
| PBC-20-12-SL | 12V | 1.7A | 80mV | | | | | | | | | | 76% | 20W |
| PBC-20-15-SL | 15V | 1.4A | 100mV | | | | | | | | | | 78% | 20W |
| PBC-20-24-SL | 24V | 0.8A | 100mV | | | | | | | | | | 80% | 20W |
| PBC-30-5-SF | 5V | 6.0A | 60mV | | | | | | | | | | 72% | 30W |
| PBC-30-12-SF | 12V | 2.5A | 80mV | | | | | | | | | | 74% | 30W |
| PBC-30-15-SF | 15V | 2.0A | 100mV | | | | | | | | | | 76% | 30W |
| PBC-30-24-SF | 24V | 1.3A | 100mV | | | | | | | | | | 78% | 30W |
| PBC-40-5-SL | 5V | 8.0A | 80mV | | | | | | | | | | 72% | 40W |
| PBC-40-12-SL | 12V | 3.5A | 100mV | | | | | | | | | | 76% | 40W |
| PBC-40-15-SL | 15V | 2.8A | 100mV | | | | | | | | | | 76% | 40W |
| PBC-40-24-SL | 24V | 1.8A | 100mV | | | | | | | | | | 78% | 40W |
| PBC-50-5-SF | 5V | 10.0A | 80mV | | | | | | | | | | 73% | 50W |
| PBC-50-12-SF | 12V | 4.2A | 100mV | | | | | | | | | | 76% | 50W |
| PBC-50-15-SF | 15V | 3.4A | 100mV | | | | | | | | | | 77% | 50W |
| PBC-50-24-SF | 24V | 2.1A | 100mV | | | | | | | | | | 80% | 50W |
| PBC-50-48-SF | 48V | 1.0A | 150mV | | | | | | | | | | 83% | 50W |
| PBC-60-5-SL | 5V | 12.0A | 80mV | | | | | | | | | | 73% | 60W |
| PBC-60-12-SL | 12V | 5.0A | 100mV | | | | | | | | | | 76% | 60W |
| PBC-60-15-SL | 15V | 4.0A | 120mV | | | | | | | | | | 77% | 60W |
| PBC-60-24-SL | 24V | 2.5A | 150mV | | | | | | | | | | 80% | 60W |
| PBC-70-12-SF | 12V | 6.0A | 100mV | | | | | | | | | | 78% | 70W |
| PBC-70-15-SF | 15V | 4.7A | 100mV | | | | | | | | | | 79% | 70W |
| PBC-70-24-SF | 24V | 3.0A | 120mV | | | | | | | | | | 82% | 70W |
| PBC-70-48-SF | 48V | 1.5A | 150mV | | | | | | | | | | 83% | 70W |
| PBC-100-5-SF | 5V | 20.0A | 100mV | | | | | | | | | | 77% | 100W |
| PBC-100-7.5-SF | 7.5V | 13.6A | 100mV | | | | | | | | | | 78% | 100W |
| PBC-100-12-SF | 12V | 9.0A | 100mV | | | | | | | | | | 82% | 100W |
| PBC-100-13.8-SF1 | 3.8V | 8.0A | 100mV | | | | | | | | | | 82% | 100W |
| PBC-100-15-SF | 15V | 7.0A | 100mV | | | | | | | | | | 82% | 100W |
| PBC-100-24-SF | 24V | 4.2A | 100mV | | | | | | | | | | 83% | 100W |
| PBC-100-48-SF | 48V | 2.1A | 150mV | | | | | | | | | | 84% | 100W |
| PBC-150-5-SL | 5V | 30.0A | 120mV | | | | | | | | | | 78% | 150W |
| PBC-150-7.5-SL | 7.5V | 20.0A | 120mV | | | | | | | | | | 80% | 150W |
| PBC-150-9-SL | 9V | 17.0A | 120mV | | | | | | | | | | 80% | 150W |
| PBC-150-12-SL | 12V | 12.5A | 120mV | | | | | | | | | | 82% | 150W |
| PBC-150-24-SL | 24V | 6.5A | 150mV | | | | | | | | | | 85% | 150W |
| PBC-150-28-SL | 28V | 5.5A | 150mV | | | | | | | | | | 85% | 150W |
| PBC-150-36-SL | 36V | 4.2A | 200mV | | | | | | | | | | 86% | 150W |
| PBC-10-H-DL | 5V | 0.2-1.8A | 50mV | 5V | 0.10-1.0A | 80mV | | | | | | | 67% | 10W |
| PBC-10-E-DL | 5V | 0.2-1.8A | 50mV | 12V | 0.10-0.5A | 100mV | | | | | | | 69% | 10W |
| PBC-10-F-DL | 5V | 0.2-1.8A | 50mV | 15V | 0.10-0.5A | 100mV | | | | | | | 70% | 10W |
| PBC-10-G-DL | 5V | 0.2-1.8A | 50mV | 24V | 0.05-0.3A | 100mV | | | | | | | 72% | 10W |
| PBC-20-H-DL | 5V | 0.4-3.0A | 50mV | 5V | 0.20-1.5A | 50mV | | | | | | | 69% | 20W |
| PBC-20-E-DL | 5V | 0.4-3.0A | 50mV | 12V | 0-1.0A | 80mV | | | | | | | 70% | 20W |
| PBC-20-F-DL | 5V | 0.4-3.0A | 50mV | 15V | 0-1.0A | 80mV | | | | | | | 71% | 20W |

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OPEN FRAME & ENCLOSED

| MODEL NUMBER | OUTPUT1 | RIPPLE NOISE | OUTPUT2 | RIPPLE NOISE | OUTPUT3 | RIPPLE NOISE | OUTPUT4 | RIPPLE NOISE | EFFI | POWER |
|--------------|--------------|--------------|---------------|--------------|----------------|--------------|--------------|--------------|------|-------|
| PBC-20-G-DL | 5V 0.4-3.0A | 50mV | 24V 0.1-0.7A | 100mV | | | | | 72% | 20W |
| PBC-30-H-DF | 5V 0.5-4.0A | 50mV | 5V 0-1.5A | 50mV | | | | | 68% | 30W |
| PBC-30-E-DF | 5V 0.5-4.0A | 50mV | 12V 0-1.5A | 80mV | | | | | 69% | 30W |
| PBC-30-G-DF | 5V 0.5-4.0A | 50mV | 24V 0-1.0A | 80mV | | | | | 72% | 30W |
| PBC-30-A-DF | 12V 0.2-2.0A | 80mV | 12V 0-1.5A | 100mV | | | | | 68% | 30W |
| PBC-40-H-DL | 5V 0.5-5.0A | 60mV | 5V 0.40-2.0A | 80mV | | | | | 70% | 40W |
| PBC-40-E-DL | 5V 0.5-5.0A | 60mV | 12V 0.20-2.0A | 100mV | | | | | 71% | 40W |
| PBC-40-G-DL | 5V 0.5-5.0A | 60mV | 24V 0-1.5A | 100mV | | | | | 73% | 40W |
| PBC-40-A-DL | 12V 0.2-2.5A | 100mV | 12V 0-1.5A | 100mV | | | | | 72% | 40W |
| PBC-50-E-DF | 5V 0.5-6.0A | 50mV | 12V 0-2.5A | 100mV | | | | | 68% | 50W |
| PBC-50-G-DF | 5V 0.5-6.0A | 50mV | 24V 0-1.5A | 100mV | | | | | 70% | 50W |
| PBC-50-A-DF | 12V 0.2-4.0A | 80mV | 12V 0-2.5A | 100mV | | | | | 70% | 50W |
| PBC-50-J-DF | 27V 0.1-1.5A | 100mV | 27V 0-1.5A | 100mV | | | | | 73% | 50W |
| PBC-60-E-DL | 5V 0.5-6.0A | 80mV | 12V 0.20-4.0A | 150mV | | | | | 72% | 60W |
| PBC-60-G-DL | 5V 0.3-6.0A | 80mV | 24V 0.00-2.0A | 100mV | | | | | 75% | 60W |
| PBC-60-A-DL | 12V 0.3-4.0A | 100mV | 12V 0.20-3.0A | 120mV | | | | | 74% | 60W |
| PBC-60-D-DL | 15V 0.3-3.0A | 100mV | 15V 0.20-2.5A | 150mV | | | | | 74% | 60W |
| PBC-70-A-DF | 12V 0.2-5.0A | 100mV | 12V 0-2.5A | 100mV | | | | | 71% | 70W |
| PBC-70-B-DF | 12V 0.2-5.0A | 100mV | 15V 0-2.0A | 100mV | | | | | 72% | 70W |
| PBC-70-C-DF | 12V 0.2-5.0A | 100mV | 24V 0-2.0A | 120mV | | | | | 74% | 70W |
| PBC-100-E-DF | 5V 2.0-15A | 80mV | 12V 0-5.0A | 100mV | | | | | 73% | 100W |
| PBC-100-F-DF | 5V 2.0-15A | 80mV | 15V 0-4.0A | 100mV | | | | | 74% | 100W |
| PBC-100-G-DF | 5V 2.0-15A | 80mV | 24V 0-3.0A | 120mV | | | | | 76% | 100W |
| PBC-10-N-TL | 5V 0.2-1.5A | 50mV | 12V 0.05-0.3A | 100mV | -12V 0.05-0.3A | 100mV | | | 70% | 10W |
| PBC-10-Q-TL | 5V 0.2-1.5A | 50mV | 15V 0.05-0.3A | 100mV | -15V 0.05-0.3A | 100mV | | | 71% | 10W |
| PBC-10-P-TL | 5V 0.2-1.5A | 50mV | 12V 0.05-0.3A | 100mV | -5V 0.10-0.5A | 80mV | | | 68% | 10W |
| PBC-20-N-TL | 5V 0.3-2.5A | 50mV | 12V 0.10-0.8A | 100mV | -12V 0.10-0.8A | 100mV | | | 71% | 20W |
| PBC-20-Q-TL | 5V 0.3-2.5A | 50mV | 15V 0.10-0.8A | 100mV | -15V 0.10-0.8A | 100mV | | | 72% | 20W |
| PBC-20-P-TL | 5V 0.3-2.5A | 50mV | 12V 0.10-0.8A | 100mV | -5V 0.10-1.0A | 80mV | | | 69% | 20W |
| PBC-30-N-TF | 5V 0.5-3.5A | 50mV | 12V 0.10-1.2A | 100mV | -12V 0.10-0.8A | 100mV | | | 69% | 30W |
| PBC-30-Q-TF | 5V 0.5-3.5A | 50mV | 15V 0.10-0.8A | 120mV | -15V 0-0.5A | 120mV | | | 70% | 30W |
| PBC-30-P-TF | 5V 0.5-3.5A | 50mV | 12V 0.10-1.2A | 100mV | -5V 0-1.0A | 80mV | | | 68% | 30W |
| PBC-40-N-TL | 5V 0.5-4.0A | 50mV | 12V 0.20-1.5A | 100mV | -12V 0.20-0.8A | 100mV | | | 68% | 40W |
| PBC-40-Q-TL | 5V 0.5-4.0A | 50mV | 15V 0-1.0A | 100mV | -15V 0.00-1.0A | 100mV | | | 69% | 40W |
| PBC-40-P-TL | 5V 0.5-4.0A | 50mV | 12V 0.20-1.5A | 100mV | -5V 0.20-1.5A | 80mV | | | 68% | 40W |
| PBC-50-N-TL | 5V 0.5-5.0A | 80mV | 12V 0.20-2.0A | 100mV | -12V 0.20-1.5A | 100mV | | | 68% | 50W |
| PBC-50-Q-TL | 5V 0.5-5.0A | 50mV | 15V 0.00-2.0A | 100mV | -15V 0-1.0A | 100mV | | | 69% | 50W |
| PBC-50-P-TL | 5V 0.6-5.0A | 50mV | 12V 0.20-2.0A | 100mV | -5V 0.40-1.5A | 80mV | | | 68% | 50W |
| PBC-60-N-TL | 5V 0.5-6.0A | 80mV | 12V 0-2.0A | 100mV | -12V 0.20-1.5A | 100mV | | | 71% | 60W |
| PBC-60-Q-TL | 5V 0.6-7.0A | 80mV | 15V 0-2.0A | 100mV | -15V 0-1.0A | 100mV | | | 72% | 60W |
| PBC-60-P-TL | 5V 0.7-8.0A | 80mV | 12V 0-2.0A | 100mV | -5V 0-1.5A | 80mV | | | 70% | 60W |
| PBC-70-K-TF | 12V 0.2-4.0A | 100mV | 24V 0-1.0A | 120mV | -5V 0-1.5A | 80mV | | | 74% | 70W |
| PBC-70-L-TF | 15V 0.2-3.0A | 100mV | -15V 0-1.5A | 100mV | 5V 0-1.5A | 80mV | | | 74% | 70W |
| PBC-70-M-TF | 24V 0.1-2.5A | 120mV | 5V 0-2.0A | 80mV | -5V 0-1.5A | 80mV | | | 76% | 70W |
| PBC-100-N-TF | 5V 2.0-12A | 80mV | 12V 0-2.5A | 100mV | -12V 0-1.5A | 100mV | | | 73% | 100W |
| PBC-100-Q-TF | 5V 2.0-12A | 80mV | 15V 0-2.5A | 100mV | -15V 0-1.0A | 100mV | | | 74% | 100W |
| PBC-35-A-QL | 5V 0.6-3.0A | 80mV | 12V 0-0.5A | 100mV | -12V 0-0.5A | 100mV | 24V 0-0.35A | 120mV | 65% | 35W |
| PBC-35-B-QL | 5V 0.6-3.0A | 80mV | 15V 0-0.5A | 100mV | -15V 0-0.5A | 100mV | 12V 0-0.35A | 100mV | 65% | 35W |
| PBC-35-C-QL | 5V 0.8-4.0A | 80mV | 5V 0-0.5A | 80mV | 12V 0-0.5A | 100mV | -12V 0-0.35A | 100mV | 64% | 35W |
| PBC-55-A-QL | 5V 1.4-7.0A | 60mV | -5V 0-0.5A | 150mV | 12V 0-1.0A | 100mV | -12V 0-0.50A | 100mV | 66% | 55W |
| PBC-55-B-QL | 5V 0.8-4.0A | 60mV | 24V 0-1.0A | 150mV | 12V 0-0.5A | 100mV | -12V 0-0.50A | 100mV | 65% | 55W |
| PBC-55-C-QL | 5V 0.6-3.0A | 60mV | 24V 0-1.0A | 150mV | 15V 0-0.5A | 100mV | -15V 0-0.50A | 100mV | 66% | 55W |

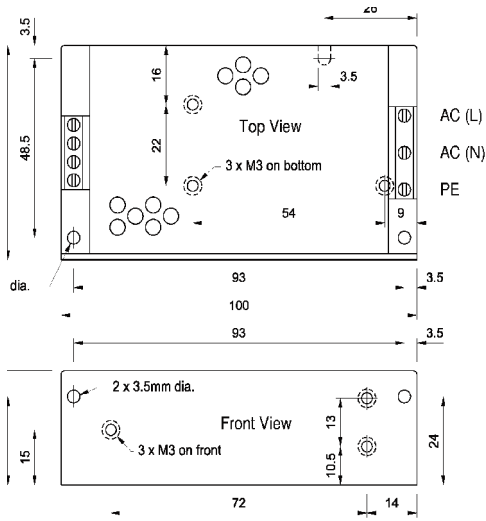
PBC Series

10-150 WATTS - AC/DC SINGLE & MULTIPLE OUTPUT

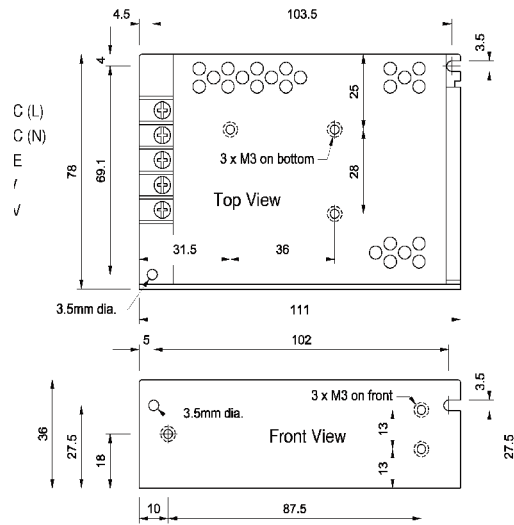
OPEN FRAME & ENCLOSED

TECHNICAL ILLUSTRATIONS

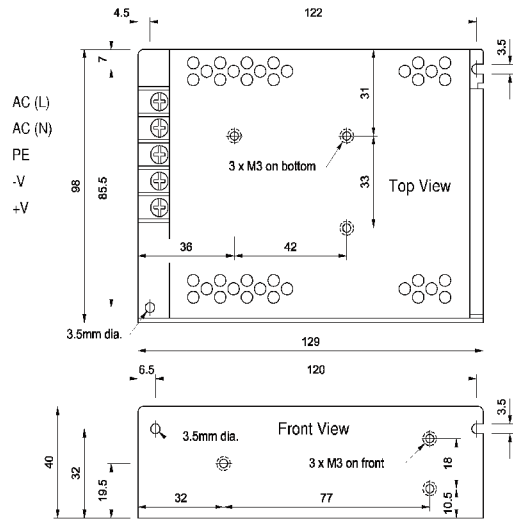
PBC10W SINGLE



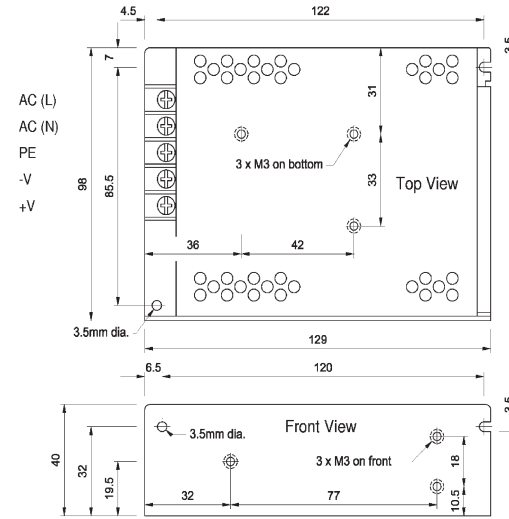
PBC20W SINGLE



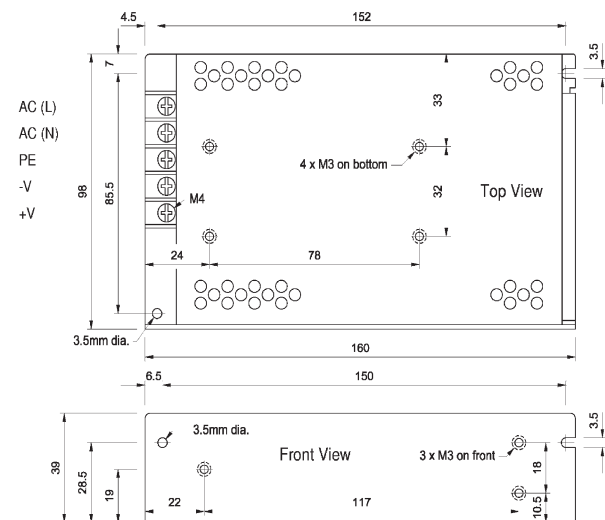
PBC30W SINGLE



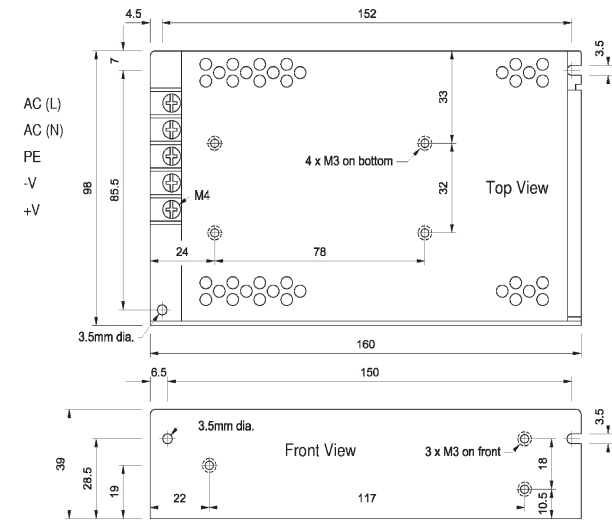
PBC40W SINGLE



PBC50W SINGLE



PBC60W SINGLE

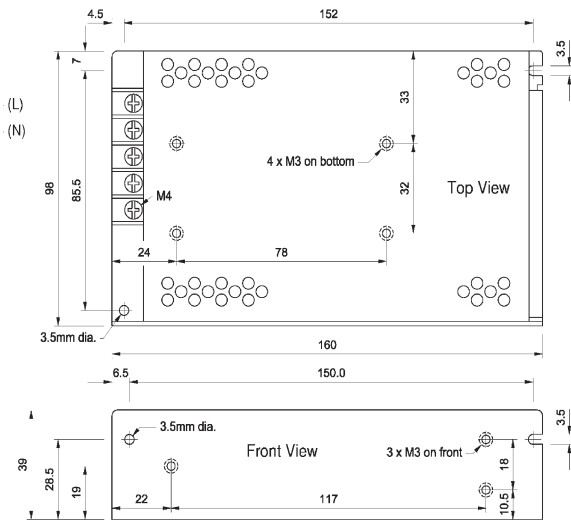


PBC Series

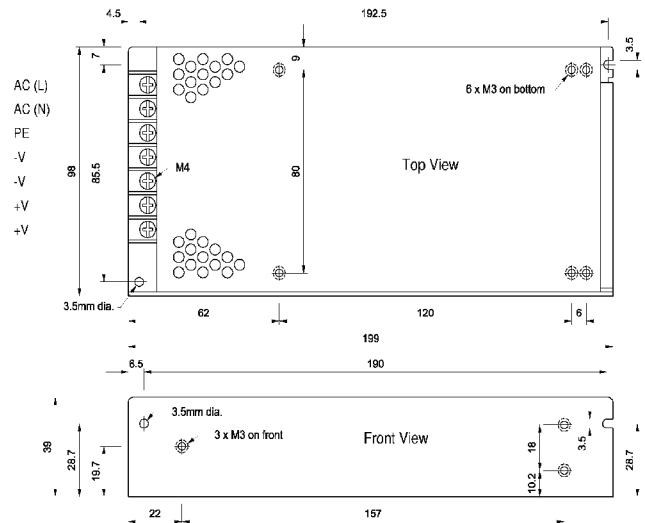
10-150 WATTS - AC/DC SINGLE DUAL MULTIPLE OUTPUT

OPEN FRAME & ENCLOSED

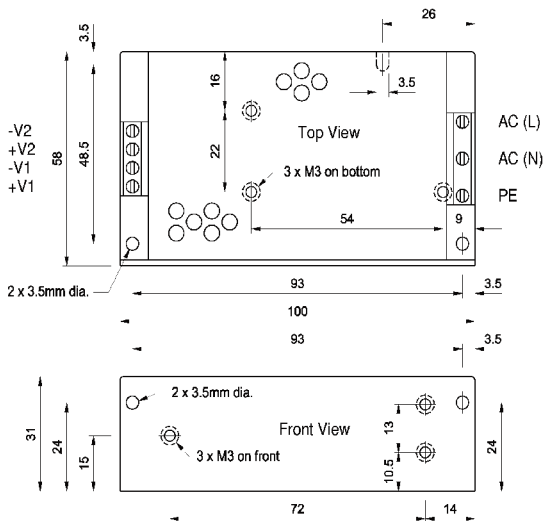
PBC70W SINGLE



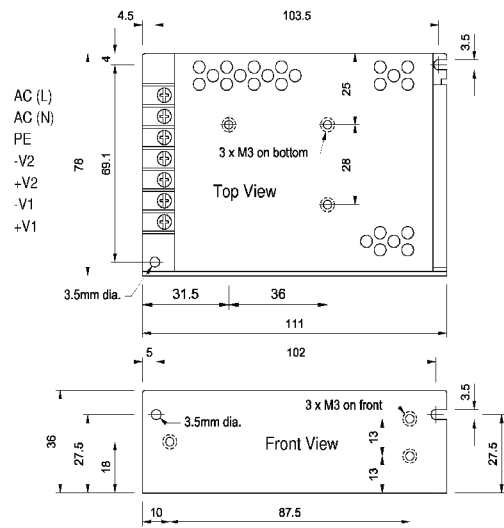
PBC100W SINGLE



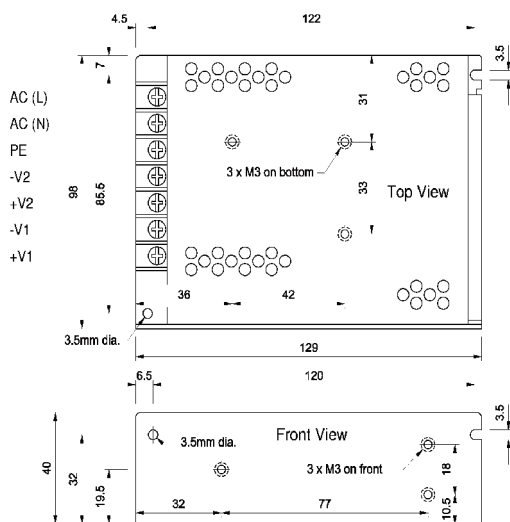
PBC10W DUAL



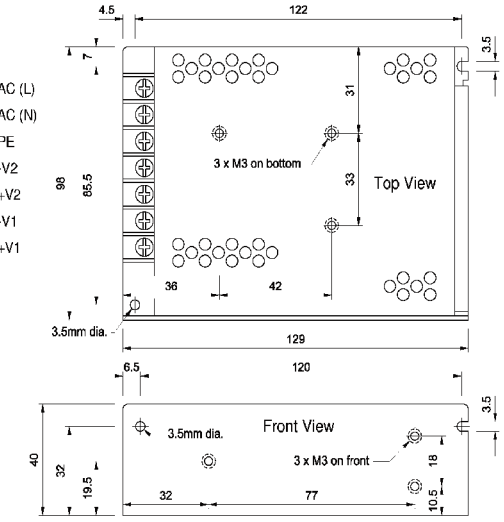
PBC20W DUAL



PBC30W DUAL



PBC40W DUAL

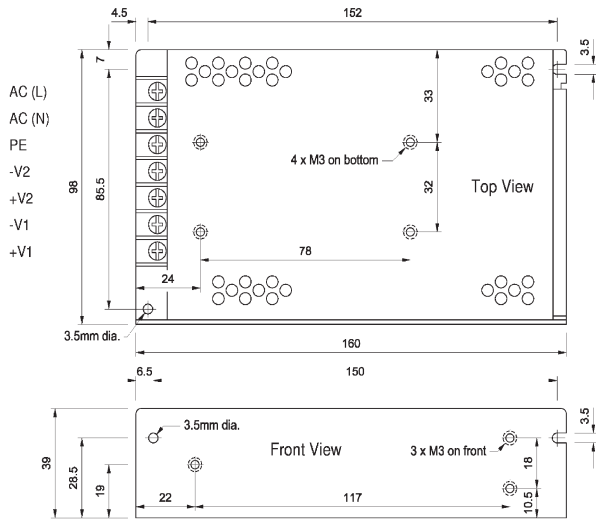


PBC Series

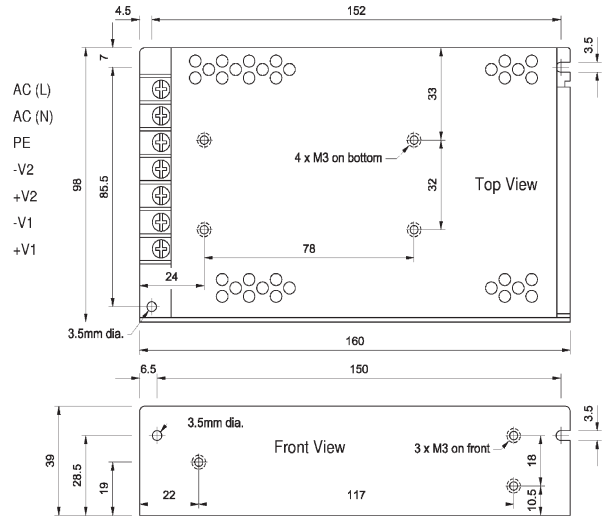
10-150 WATTS - AC/DC SINGLE MULTIPLE OUTPUT

OPEN FRAME & ENCLOSED

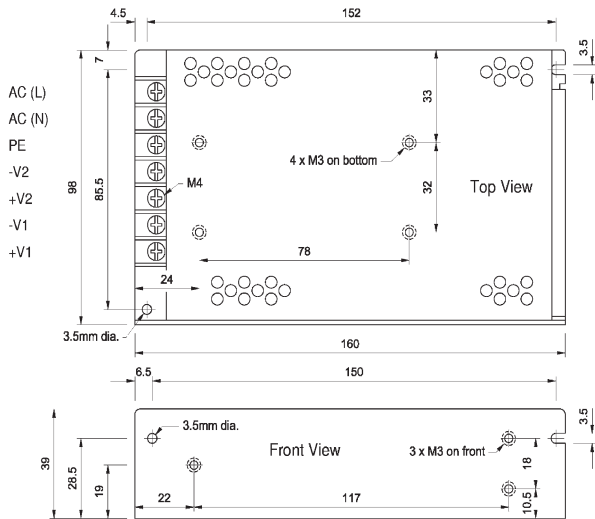
PBC50W DUAL



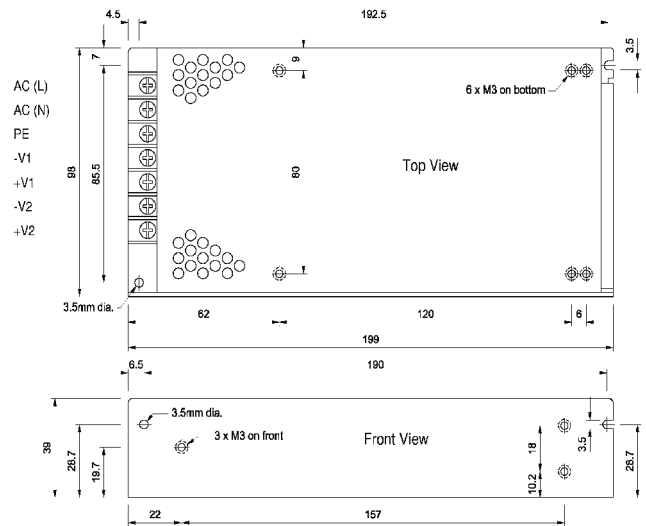
PBC60W DUAL



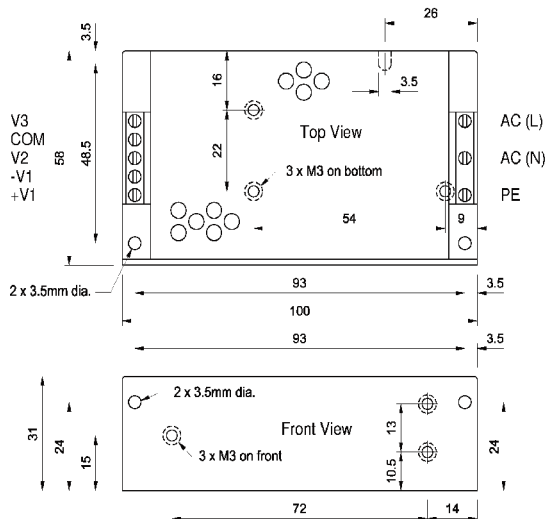
PBC70W DUAL



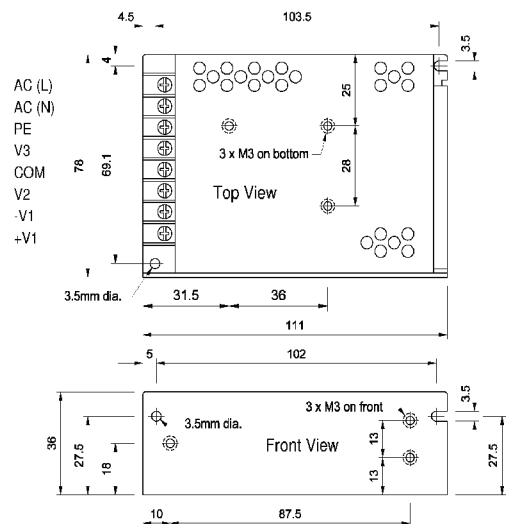
PBC100W DUAL



PBC10W TRIPLE



PBC20W TRIPLE

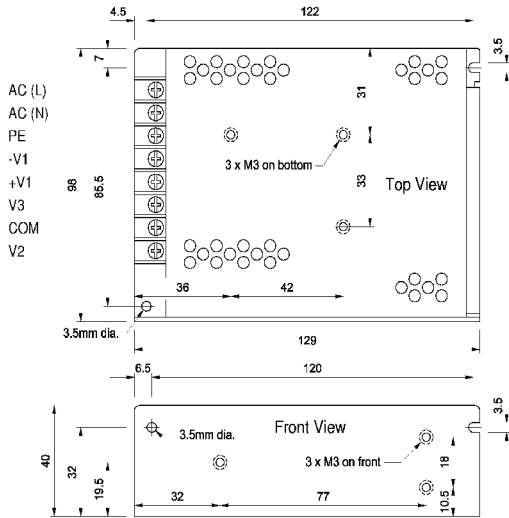


PBC Series

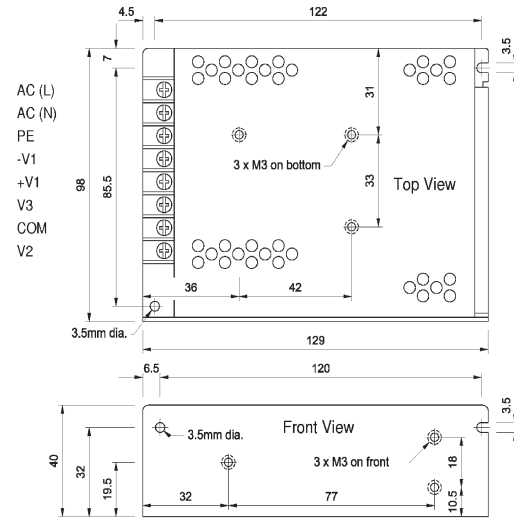
10-150 WATTS - AC/DC SINGLE MULTIPLE OUTPUT

OPEN FRAME & ENCLOSED

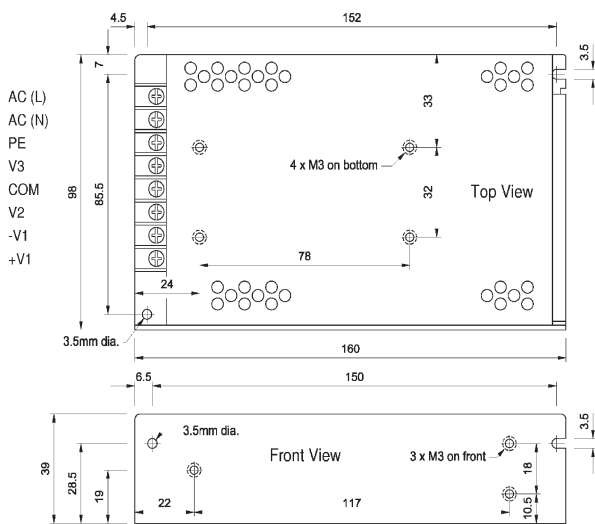
PBC30W TRIPLE



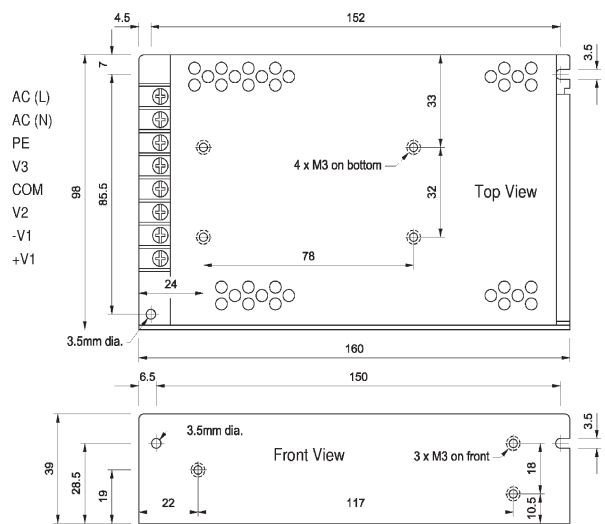
PBC40W TRIPLE



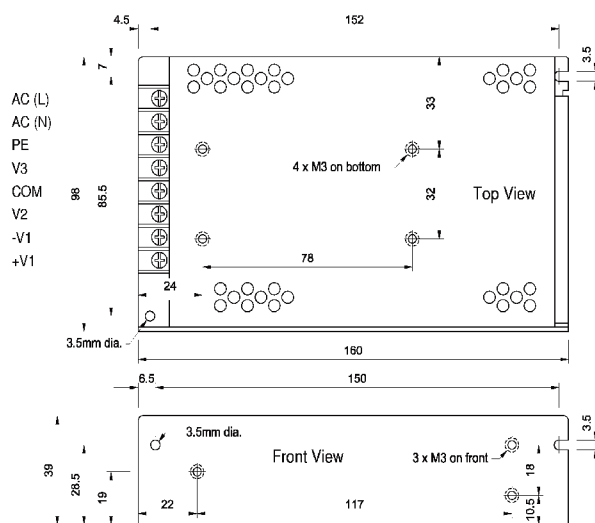
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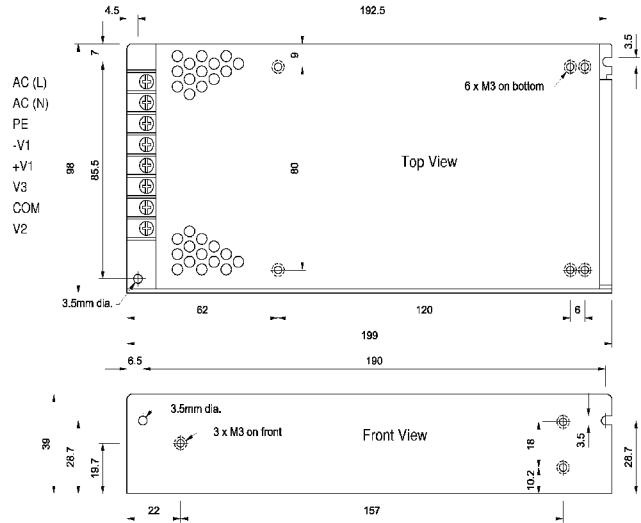
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