

# PBC Series

10-150 WATTS AC/DC SINGLE MULTI OUTPUT AC/DC GENERAL

## 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)	$\leq \pm 0.5\%$ .
Load regulation	0.5%
Voltage adjustment	$\pm 10\%$ .
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.

## GENERAL

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

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## 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

# PBC Series

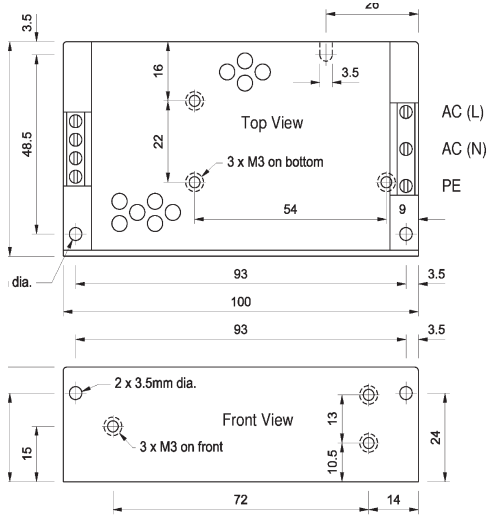
10-150 WATTS AC/DC SINGLE MULTI OUTPUT AC/DC GENERAL

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

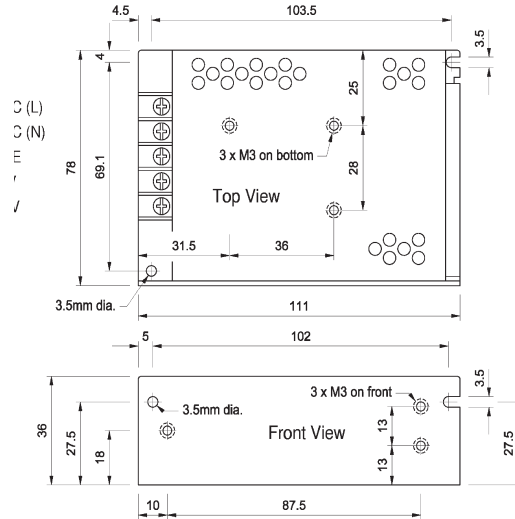
# PBC Series

10-150 WATTS AC/DC SINGLE DUAL MULTI

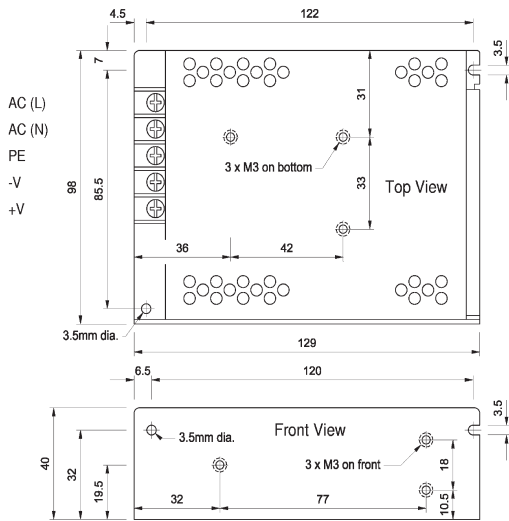
## Technical Illustrations PBC10W SINGLE



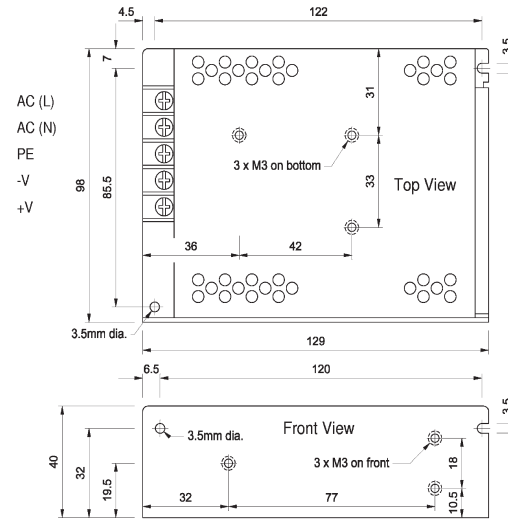
## PBC20W SINGLE



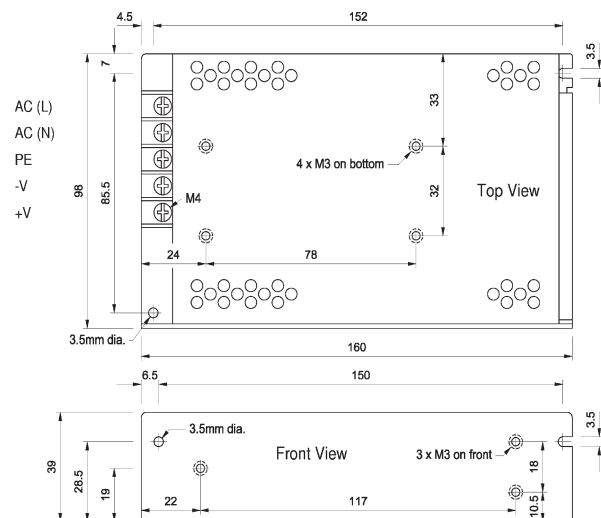
## PBC30W SINGLE



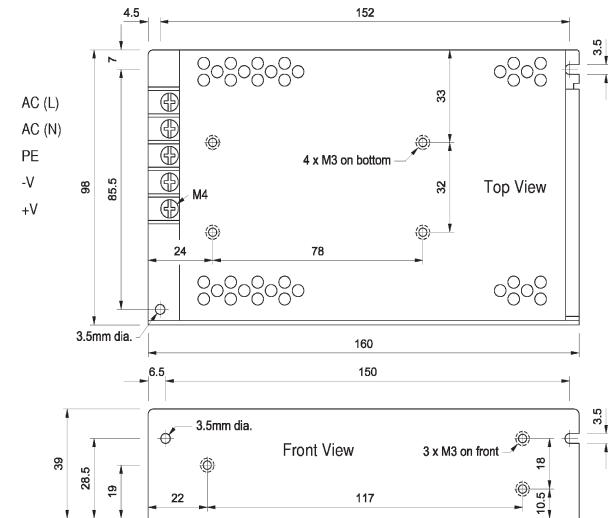
## PBC40W SINGLE



## PBC50W SINGLE



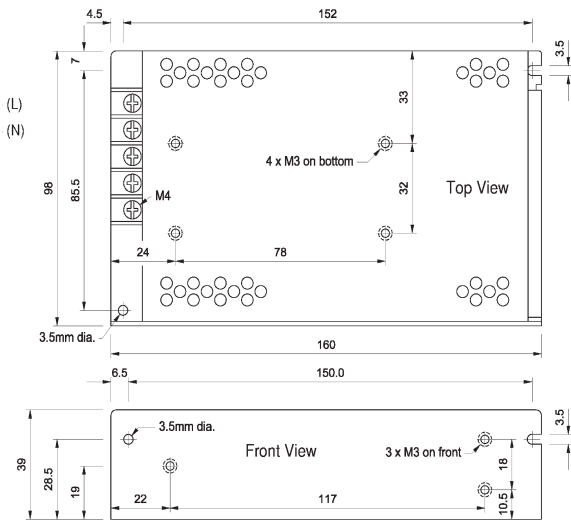
## PBC60W SINGLE



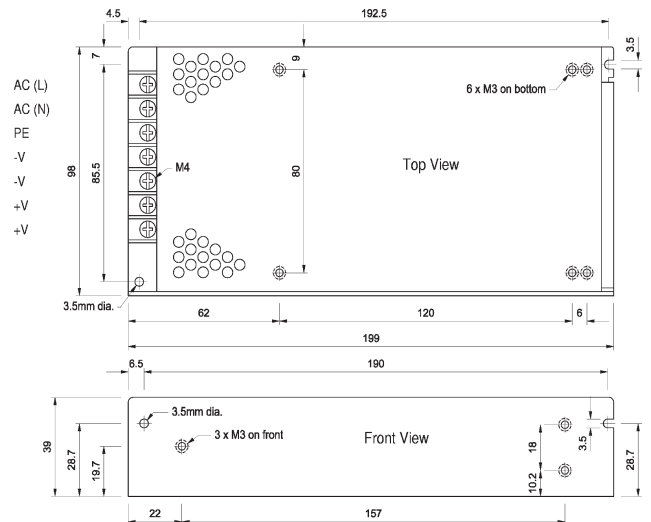
# PBC Series

10-150 WATTS AC/DC SINGLE DUAL MULTI

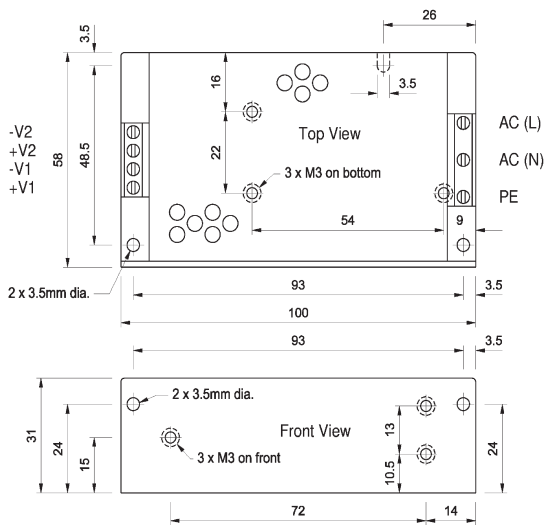
**PBC70W SINGLE**



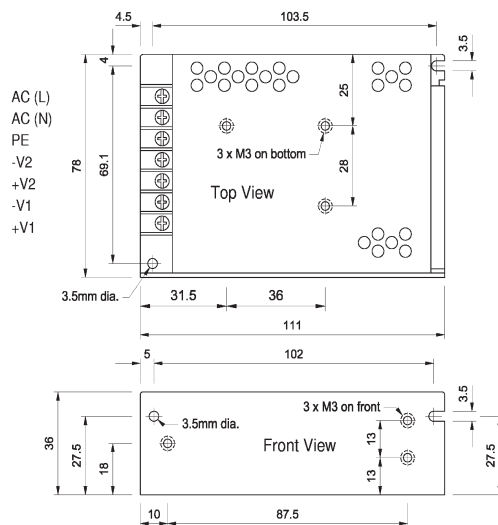
**PBC100W SINGLE**



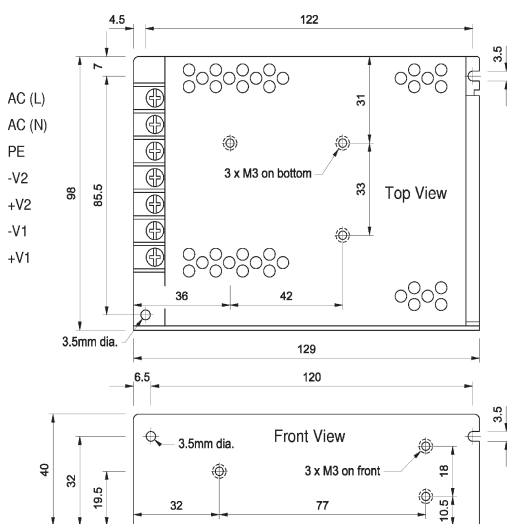
**PBC10W DUAL**



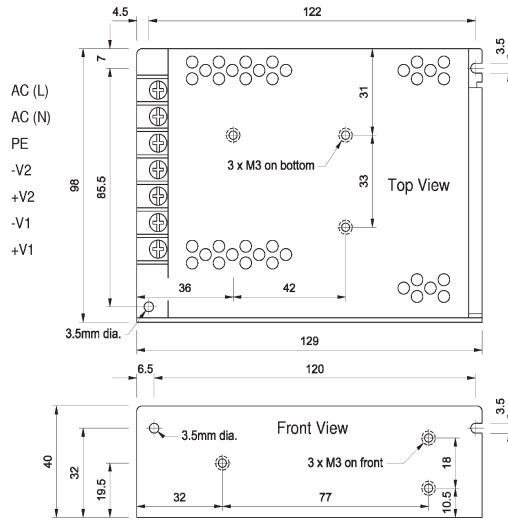
**PBC20W DUAL**



**PBC30W DUAL**



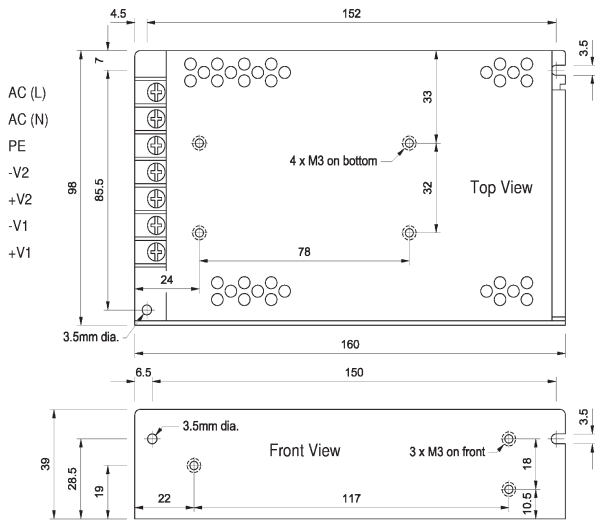
**PBC40W DUAL**



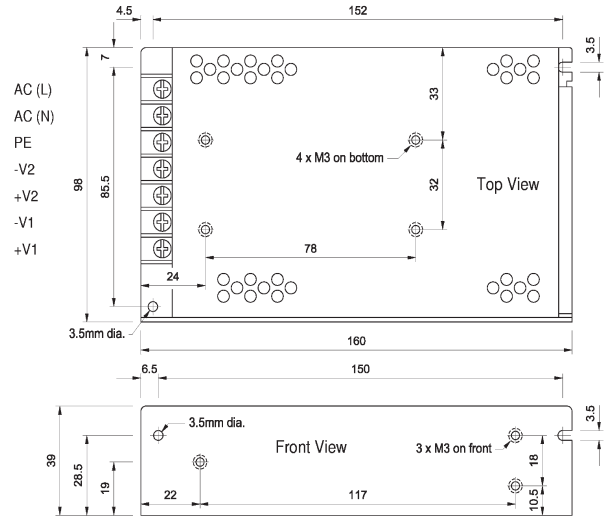
# PBC Series

10-150 WATTS AC/DC SINGLE MULTI OUTPUT AC/DC GENERAL

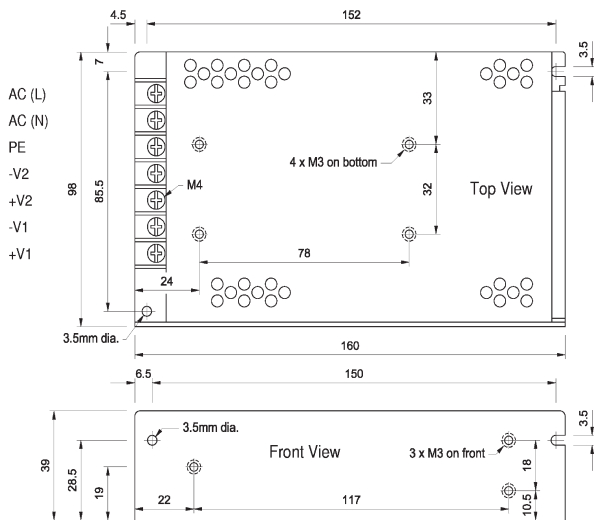
## PBC50W DUAL



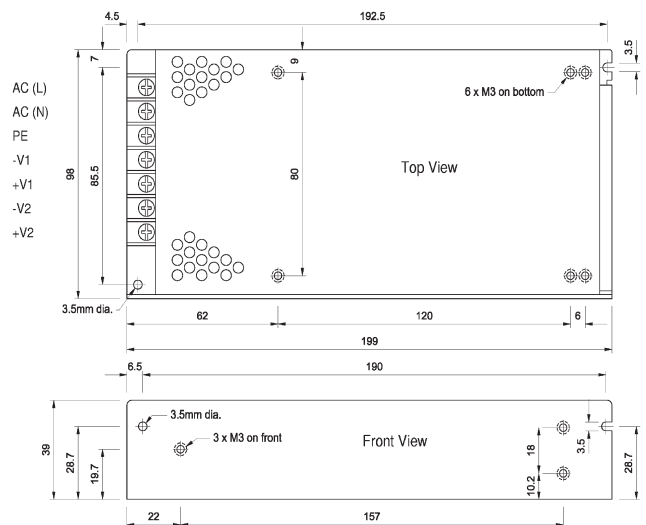
## PBC60W DUAL



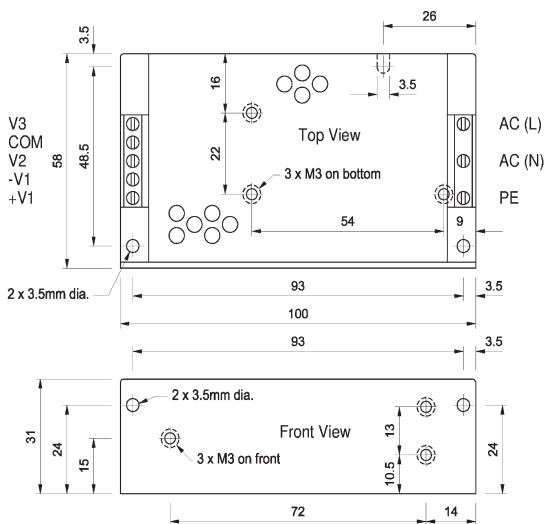
## PBC70W DUAL



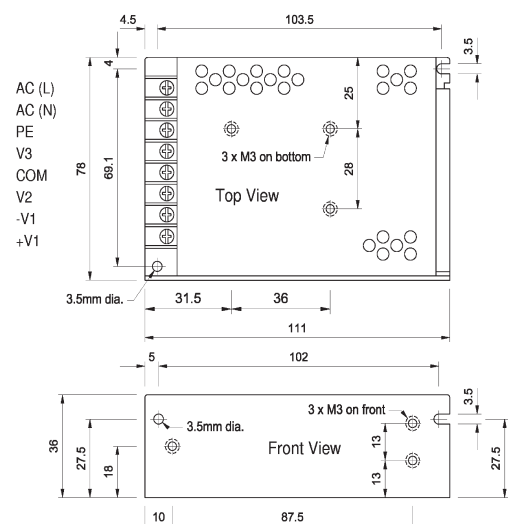
## PBC100W DUAL



## PBC10W TRIPLE



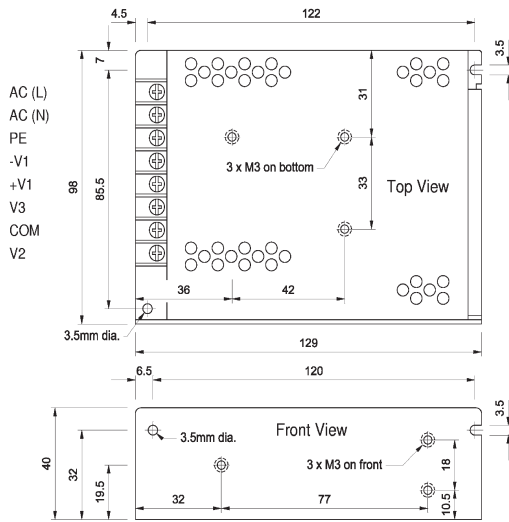
## PBC20W TRIPLE



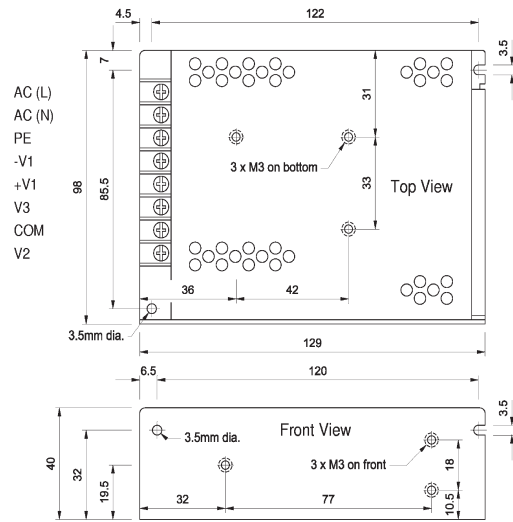
# PBC Series

10-150 WATTS AC/DC SINGLE MULTI OUTPUT AC/DC GENERAL

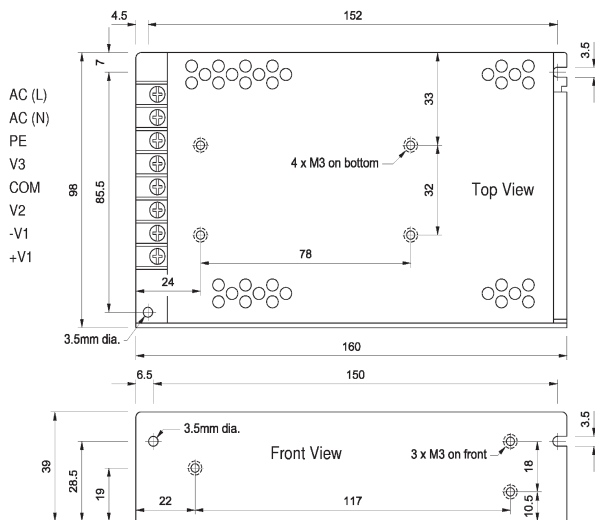
## PBC30W TRIPLE



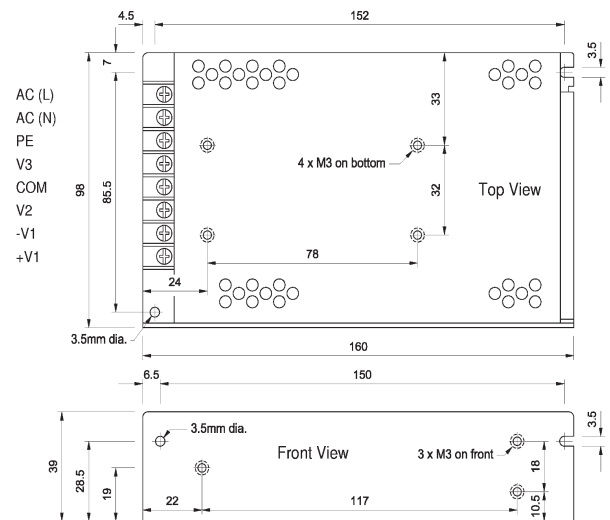
## PBC40W TRIPLE



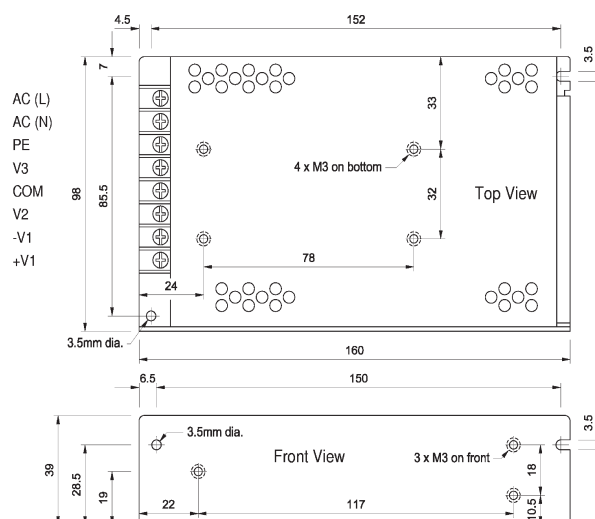
## PBC50W TRIPLE



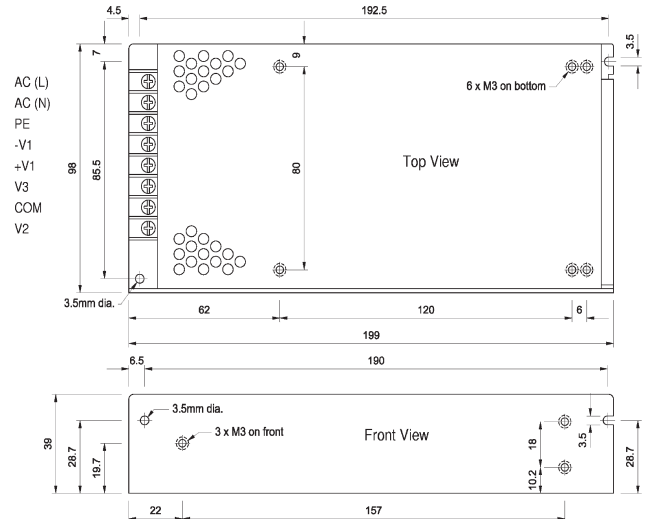
## PBC60W TRIPLE



## PBC70W TRIPLE



## PBC100W TRIPLE



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