

### Overview

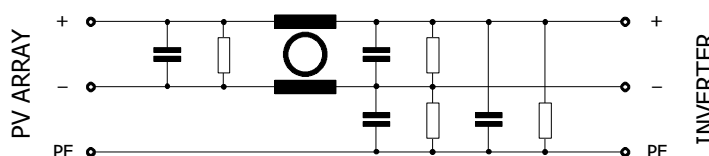
This filter series is intended to be used in Photo Voltaic applications between the solar panel and the inverter system. The filters are optimized in geometry and for power loss. They are also adapted to attenuate high frequency noise that may be degrading life time of the solar panels and as well as will reduce the radiation of EMI noise that may emerge from the panels.

Filters without Y-capacitors to protected earth are available on request. As a capacitor manufacturer, KEMET is only using high quality capacitors in its filter series.



### Technical specifications

|                   |                                    |
|-------------------|------------------------------------|
| Rated voltage     | 1200 VDC                           |
| Rated current     | 25 – 1600 A                        |
| Rated temperature | 55°C                               |
| Temperature range | -40°C to +100°C                    |
| Climate category  | 40/100/21                          |
| Voltage test      | P -> P 3000 VDC<br>P -> E 3600 VDC |

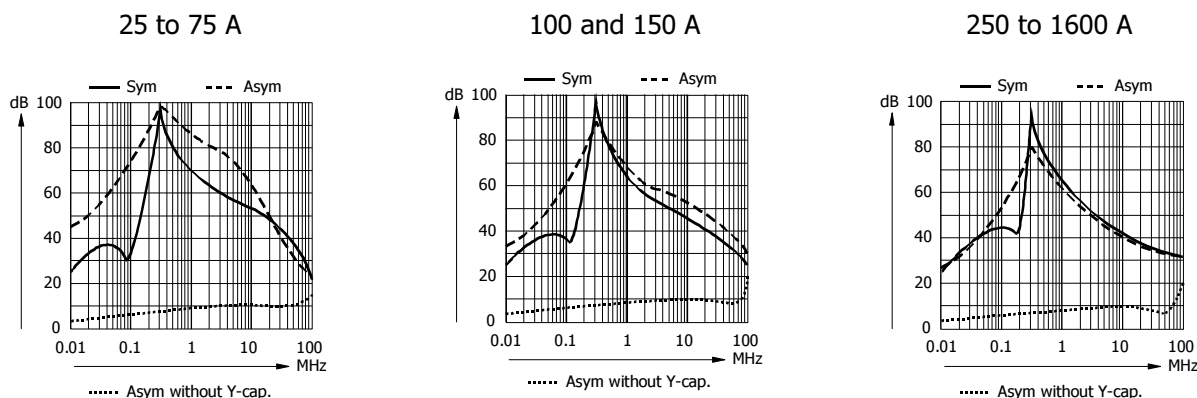


The FLLE2...PV-series is designed according to IEC/EN 60939 and UL 1283.

| Part Number   | Rated current<br>@ 55°C<br>(A) | Power loss<br>@ 25°C/DC<br>(W) | Weight<br>(kg) |
|---------------|--------------------------------|--------------------------------|----------------|
| FLLE2025APVR1 | 25                             | 8                              | 1              |
| FLLE2050APVR1 | 50                             | 12                             | 2              |
| FLLE2075APVR1 | 75                             | 16                             | 2              |
| FLLE2100APVR1 | 100                            | 20                             | 3              |
| FLLE2150APVR1 | 150                            | 30                             | 4              |
| FLLE2250APVI1 | 250                            | 10                             | 5              |
| FLLE2400APVI1 | 400                            | 15                             | 7              |
| FLLE2600APVI1 | 600                            | 25                             | 7              |
| FLLE2800APVI1 | 800                            | 30                             | 10             |
| FLLE21K0APVI1 | 1000                           | 45                             | 10             |
| FLLE21K6APVI1 | 1600                           | 70                             | 16             |

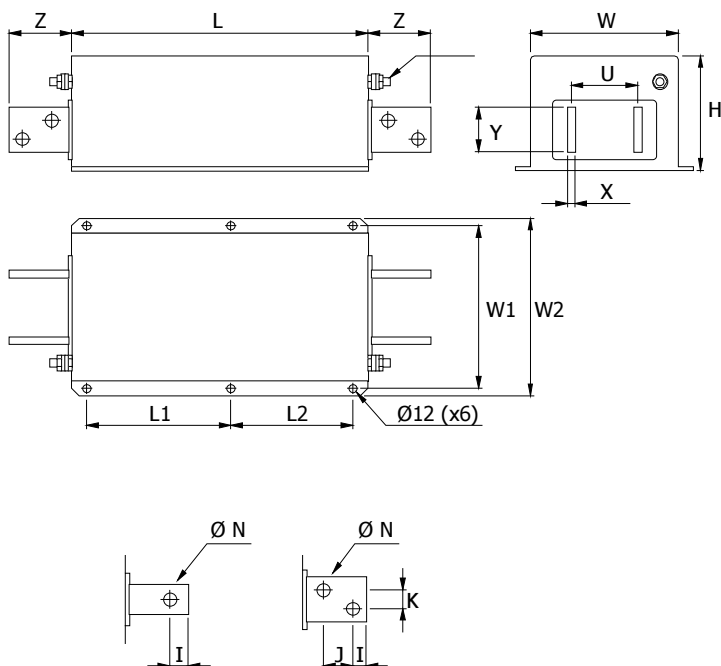
NOTE: For filters without Y-capacitors substitute PV with PX in the part number.

### Typical insertion loss



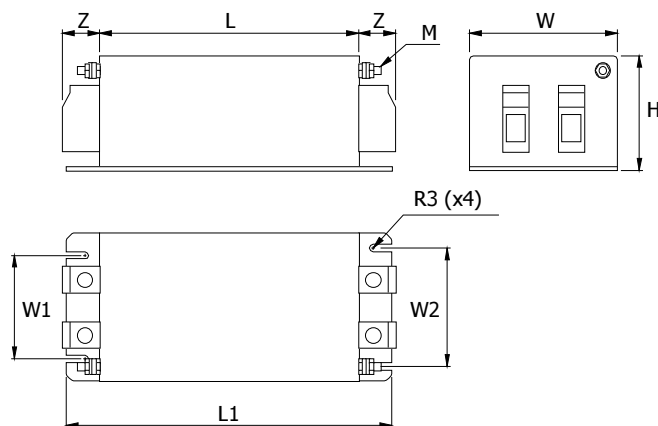
### Mechanical dimensions

FLLE2 ... PVI1 Busbar connections



250 to 1000A      1600 A

FLLE2 ... PVR1 Terminal blocks



Terminal blocks – wire dimensions

|      |                                       |
|------|---------------------------------------|
| 25A  | 16/10mm <sup>2</sup> (solid/flexible) |
| 50A  | 35/25                                 |
| 75A  | 35/25                                 |
| 100A | 50/50                                 |
| 150A | 95/95                                 |

| Part Number   | Dimensions in mm |     |     |     |     |     |     |    |    |    |     |    |    |    |      |     |
|---------------|------------------|-----|-----|-----|-----|-----|-----|----|----|----|-----|----|----|----|------|-----|
|               | L                | W   | H   | L1  | L2  | W1  | W2  | U  | X  | Y  | Z   | I  | J  | K  | N    | M   |
| FLLE2025APVR1 | 140              | 80  | 65  | 170 |     | 45  | 60  |    |    |    | 25  |    |    |    |      | M5  |
| FLLE2050APVR1 | 170              | 95  | 80  | 200 |     | 60  | 75  |    |    |    | 39  |    |    |    |      | M6  |
| FLLE2075APVR1 | 170              | 95  | 80  | 200 |     | 60  | 75  |    |    |    | 39  |    |    |    |      | M6  |
| FLLE2100APVR1 | 190              | 125 | 95  | 220 |     | 80  | 100 |    |    |    | 45  |    |    |    |      | M8  |
| FLLE2150APVR1 | 220              | 140 | 115 | 250 |     | 100 | 120 |    |    |    | 50  |    |    |    |      | M10 |
| FLLE2250APVI1 | 300              | 130 | 110 | 130 | 110 | 155 | 180 | 70 | 5  | 20 | 58  | 15 |    |    | 9    | M10 |
| FLLE2400APVI1 | 300              | 140 | 110 | 130 | 110 | 165 | 190 | 70 | 6  | 25 | 58  | 15 |    |    | 10.5 | M10 |
| FLLE2600APVI1 | 300              | 140 | 110 | 130 | 110 | 165 | 190 | 70 | 8  | 25 | 58  | 15 |    |    | 10.5 | M10 |
| FLLE2800APVI1 | 300              | 150 | 140 | 130 | 110 | 175 | 200 | 70 | 8  | 40 | 65  | 20 |    |    | 14   | M12 |
| FLLE21K0APVI1 | 300              | 150 | 140 | 130 | 110 | 175 | 200 | 70 | 8  | 40 | 65  | 20 |    |    | 14   | M12 |
| FLLE21K6APVI1 | 300              | 150 | 150 | 130 | 110 | 175 | 200 | 70 | 10 | 60 | 110 | 17 | 43 | 26 | 14   | M12 |

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- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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