

## Overview

These filters are adapted to attenuate high frequency noise that may be degrading performance or a lifetime of photovoltaic panels. They will also reduce the radiation of EMI noise that may emerge from the panels and the connection cables. The filters are optimized in geometry and are designed for the lowest power loss. Two versions are available, with or without Y capacitors, to support various inverter topologies. X and Y capacitors are selected from KEMET's wide range for highest performance and reliability.

## Applications

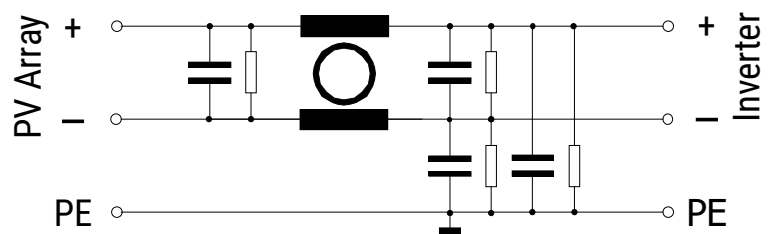
This filter is intended to be used in photovoltaic applications between the solar panel and the inverter system, and can be used within the specifications in any other DC application, e.g., battery chargers, energy storage systems and UPS machines.



## Technical Specifications

Item	Parameters/ Characteristics
Rated Voltage	1,200 VDC
Rated Current	250 – 2,500 A
Rated Temperature	55°C
Temperature Range	-40°C to 100°C
Climate Category	40/100/21
Voltage Test	P → P 3,000 VDC P → E 3,600 VDC

### Typical Electrical Schematic



## Technical Specifications cont'd

Part Number	Rated Current at 55°C (A)	Power Loss at 25°C/DC (W)	Weight (kg)
FLLE2250AP(*)I1	250	10	8
FLLE2400AP(*)I1	400	15	7
FLLE2600AP(*)I1	600	25	7
FLLE2800AP(*)I1	800	30	10
FLLE21K0AP(*)I1	1,000	45	10
FLLE21K6AP(*)I1	1,600	70	16
FLLE22K5AP(*)I1	2,500	150	25

(\*) To complete KEMET part number, insert V = Standard, X = Without Y capacitors

## Approvals

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

## Environmental Compliance

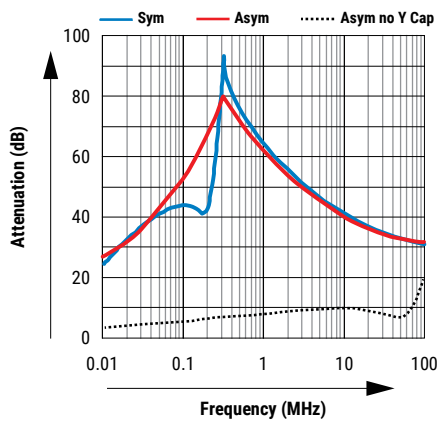
KEMET EMI filters are RoHS Compliant.



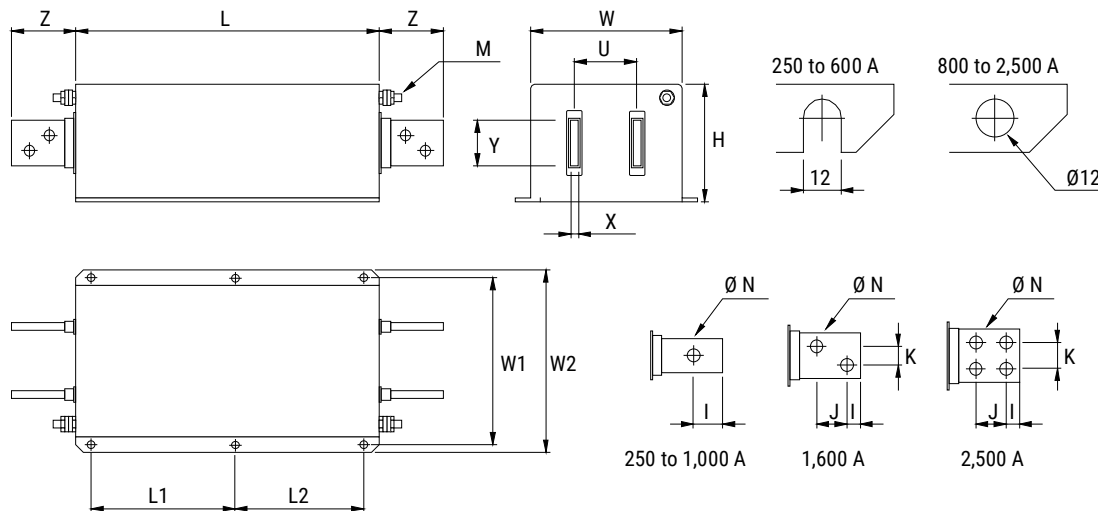
RoHS Compliant

## Typical Insertion Loss

250 to 1,000 A



## Mechanical Dimensions – Millimeters



Part Number	Dimensions															
	L	W	H	L1	L2	W1	W2	U	X	Y	Z	I	J	K	N	M
FLLE2250AP(*)I1	300	130	100	130	110	155	180	70	5	20	58	15			9	M10
FLLE2400AP(*)I1	300	130	100	130	110	165	180	70	6	25	58	15			10.5	M10
FLLE2600AP(*)I1	300	130	100	130	110	165	180	70	8	25	58	15			10.5	M10
FLLE2800AP(*)I1	300	150	130	130	110	175	200	70	8	40	65	20			14	M12
FLLE21K0AP(*)I1	300	150	130	130	110	175	200	70	8	40	65	20			14	M12
FLLE21K6AP(*)I1	300	150	130	130	110	175	200	70	10	60	110	17	43	26	14	M12
FLLE22K5AP(*)I1	400	195	180	190	150	225	250	100	15	80	100	20	35	35	14	M16

(\*) To complete KEMET part number, insert V = Standard, X = Without Y capacitors  
Tolerances, if not stated, according to ISO 2768-c.

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