

POT CORE SERIES

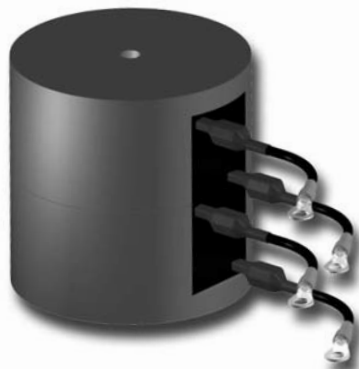
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Introduction

PREMO GROUP introduces a new high energy chokes standard series. Its high efficiency and compact format make them perfect for inverter applications.

POT CORE series is based on a combination of high performance pot cores and rectangular copper wire, the wound coil is completely enclosed by the iron powder core, improving EMC performance.

PO serie is available in a wide range of dimensions including the possibility to assembly in one or two cells, allowing to use one inductance per line.



The main applications are:

- High efficiency renewable energies applications such as solar, wind and fuel-cells.
- Spot-welding equipments.
- Input and output chokes for UPS applications.

Features

- Current up to 44 Arms.
- High current density.
- High storage low losses designs, improved efficiency for renewable applications (>99%).
- Double cell format.
- Low cost assembly.
- EMC improved.
- Very good inductance stability Vs temperature.
- Soft saturation curve (Inductance Vs current).
- Operating temperature from -40°C to 85°C.
- Wide range of output terminals (racket, fast-on, direct leads...).
- Reduced size.

Product list

Part Number	L load (mH)	Irms (Amps)	Power (VA)	Iripple (Apeak)	Ipeak (Amps)	Frec. (Hz)	Ripple Frec. (kHz)	Rdc per winding (mΩ)	Total losses (W)	ΔT (°C)	Dim (mm)
PO-0250-100	2x0,25	24	5520	2,28	34,8	50/60	15	11	27	< 30	100x100
PO-1000-100	1	24	5520	2,28	34,8	50/60	15	22	27	< 30	100x100
PO-0200-120	2x0,2	33	7590	3,27	49,94	50/60	10	11	39	< 40	100x120
PO-0800-120	0,8	33	7590	3,27	49,94	50/60	10	21	38	< 40	100x120
PO-0250-180	2x0,25	44	10120	4,36	66,58	50/60	10	14	90	< 50	120x180
PO-1000-180	1	44	10120	4,36	66,58	50/60	10	28	90	< 50	120x180

Inductance measured at 10kHz, 100mV, T=25°C.

Inductance tolerance ±10%.

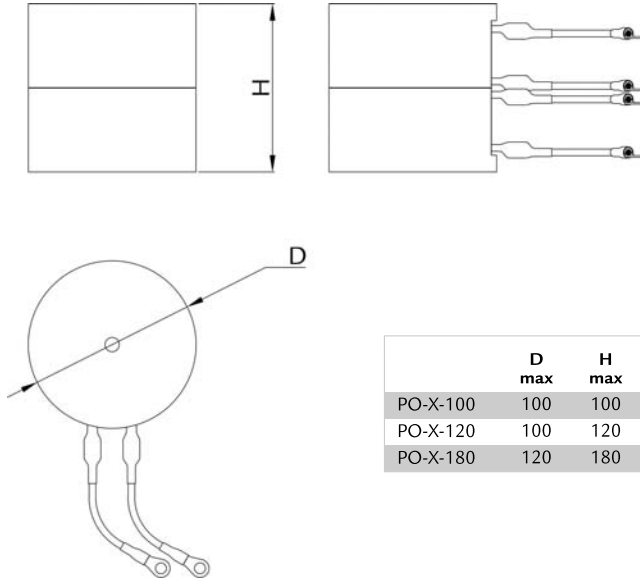
Based on natural cooling convection.

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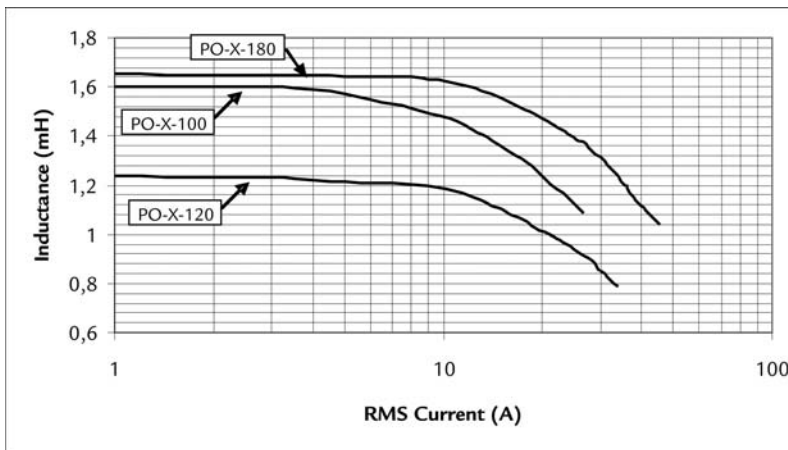
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Dimensions



	D max	H max
PO-X-100	100	100
PO-X-120	100	120
PO-X-180	120	180

Characteristic curve Inductance Vs RMS Current



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