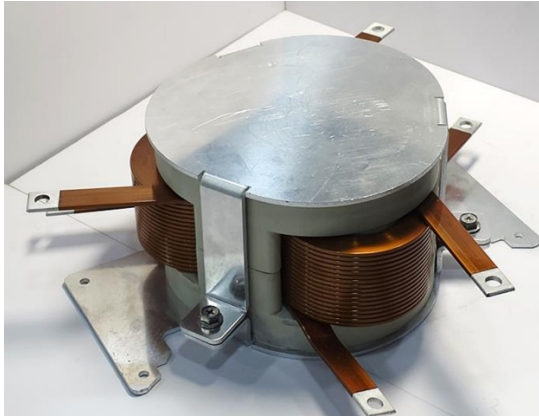


# New - 3 Phase 100KW Filter

## for Solar Inverters,UPS, EV Charging Station





**Less Copper, Less Losses,  
Smaller Size**

**OD 190 mm Height 101mm**

### Each Phase Spec with Aluminium wire:

#### Electrical Spec

		1Phase CMI Type
Core Material		Magnetic Paste 50 $\mu$
Wire		AIW 2.7*15.0 / 18turns
Frequency[kHz]		100kHz
DCR[m $\Omega$ ]		2.8m $\Omega$ (Typ.)
Inductance [ $\mu$ H]	0A	130(Typ.)
	250A	65(Typ.)
	300A	58(Typ.)

Integrated inductors combine several inductors into a single unit without requiring changes to the circuit, achieving significant reductions in both volume (35%) and weight (32%). Additionally, by minimizing the magnetic coupling coefficient compared to traditional methods, they maintain inductor balance under DC bias (DCB), facilitating easier power control.

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A 3-phase 100kW filter for solar inverters, UPS systems, and EV charging stations is typically an EMI/EMC filter or a Passive Harmonic Filter designed to suppress high-frequency noise and harmonics generated by high-power switching components .

For a 100kW system (approx. 145–160A at 400V), you should look for filters rated for at least 150A to 200A to ensure safe continuous operation .

#### Key Technical Specifications for 100kW Applications

**Current Rating:** Aim for a 180A–200A rating to provide a safety margin for a 100kW load .

**Voltage Rating:** Typically 380V to 480VAC for 3-phase systems .

**Insertion Loss:** Look for filters providing 60dB to 100dB attenuation to ensure compliance with global EMC standards like CISPR 11 .

**Harmonic Control:** High-quality filters should target THD reduction to under 5% to protect the grid and internal electronics .

**Environmental Protection:** For outdoor EV stations or solar sites, ensure an IP55 or IP65 rating .