

**REMOVING HARM
FROM HARMONICS™**

PACKAGING SOLUTIONS



Unmatched Packaging Solutions

CTM enclosures are NEMA 3R rated and UL 508A listed; they provide a small footprint and high power density that conveniently fits where you need it. CTM enclosures are outfitted with an internal cooling system and all stand-alone enclosures come equipped with an external junction box (3-in/3-out) for convenient installation.

Stand-Alone Enclosure: CTM provides 2 stand-alone enclosure configurations we call MagStand & MagPallet. MagStand has a smaller footprint and taller profile, MagPallet has a larger footprint, fork access from 4 sides, and a lower profile.

VFD Integrated Enclosure: MagPac integrates into existing VFD enclosures allowing customers to use low cost, smaller VFD enclosures and CTM does the rest. Packaging magnetics into a VFD cabinet used to mean months of engineering, packaging, testing, and UL certification expense. Today, customers can leverage their VFD cabinet designs to create magnetics integrated solutions using MagPac by CTM and get to market fast with low cost, UL 508A listed solutions for sine wave filters, input harmonic filters, and LCL filters for Active Front End (AFE) designs.

INDUSTRIES

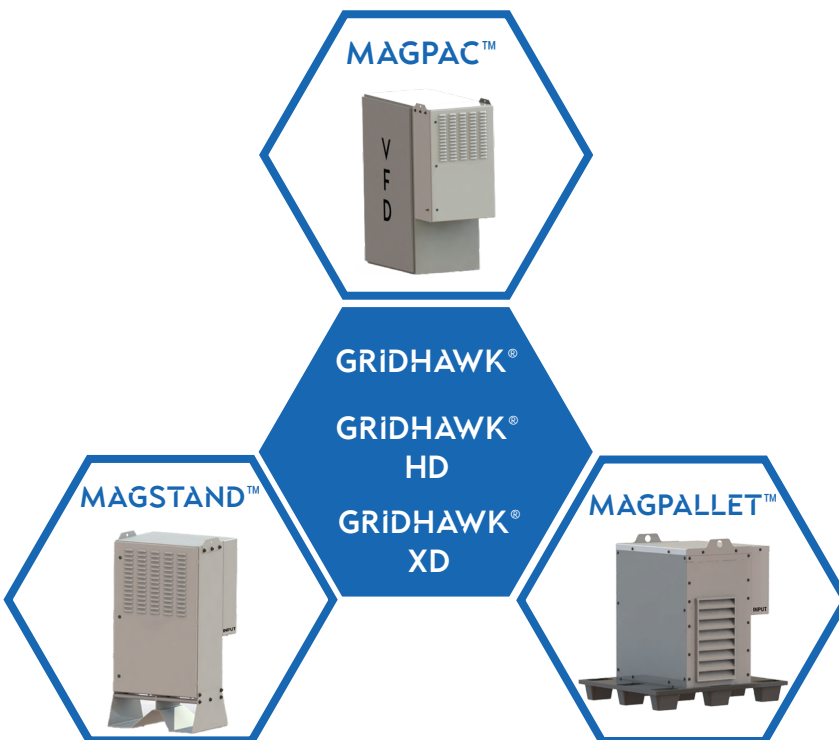


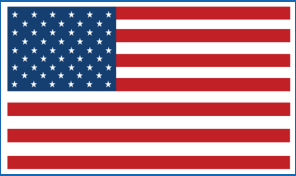
PACKAGING OPTIONS

Sine Wave Filters



Harmonic Filters





MADE
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USA

MAGPACTM



*All renderings are artist concepts & subject to change without notice.

PROBLEM:

Integrating filters into VFD cabinets is expensive, slow, and cumbersome!

SOLUTION:

MAGPACTM

1

CTM MagPacTM enclosures are **NEMA 3R** rated, **UL508A** listed, and are designed with a hinged door for convenient service.

2

MagPacTM can be configured for CTM harmonic filters, sine wave filters, LCL filters for AFE, and line/load reactors.

3

MagPacTM SWFs serve as the external junction box - 3 in/3 out for VFD cabinets.

4

CTM MagPacTM power pass through terminals create easy VFD integration inside VFD cabinet.

5

MagPacTM was designed for OEM's & VFD integrators to improve cost, quote time, supply chain, and manufacturing lead time.

6

Get to market fast with MagPacTM. Stop engineering VFD cabinets for filters & magnetics.

7

Standardize your VFD Cabinets & use MagPacTM as your input or output filter option.

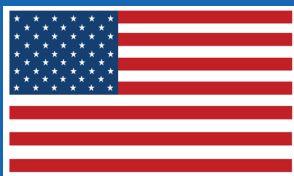
8

OEM color matching to VFD cabinet and private labeling available with lead time.

(Standard color is white)

WE FIXED IT:

FILTER INTEGRATION



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USA

TM

MAGSTAND



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PROBLEM:

Complicated integration into existing drive cabinet

SOLUTION:

MAGSTAND™

1

MagStand™ Package is equipped with “feet” for convenient mounting and storage.

2

CTM MagStand™ enclosures are **NEMA 3R** rated, **UL508A** listed, and **CE Certified**.

3

Equipped with an external junction box: 3 In & 3 Out for simple plug & play integration.

4

Can be configured for CTM harmonic filters, sine wave filters, LCL filters for AFEs, and line/load reactors.

5

Engineered to accommodate up to 1,800 HP Sine Wave Filters or 500 HP Harmonic Filters.

6

Designed with an on-board cooling system. These systems can be liquid or air cooled.

7

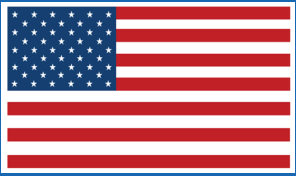
No additional thermal testing or heat removal required for installation.

8

Private labeling available with lead time.

WE FIXED IT:

**Plug & Play
Installations**



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MAGPALLET



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PROBLEM:

WEATHERWORN
WOODEN BASE

SOLUTION:

MAGPALLET™

1

The MagPallet™ is packaged as a stand alone enclosure on a permanent pallet designed for easy transportation & storage.

2

CTM MagPallet™ enclosures are **NEMA 3R** rated, **UL508A** listed, and **CE Certified**.

3

CTM MagPallet™ comes equipped with an external junction box: 3 In & 3 Out.

4

MagPallet™ can be configured for CTM harmonic filters, sine wave filters, LCL filters for AFEs, and line/load reactors.

5

Designed with an on-board cooling system. These systems can be liquid or air cooled.

6

The MagPallet™ can accommodate up to 3,600 HP Sine Wave Filters or 1,000 HP Harmonic Filters.

7

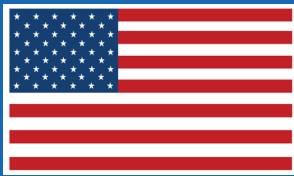
CTM MagPallets are designed to maximize power density & maintain a minimal footprint

8

Private labeling available with lead time.

WE FIXED IT:

**ENDURING
PICK &
PLACE
PACKAGING**

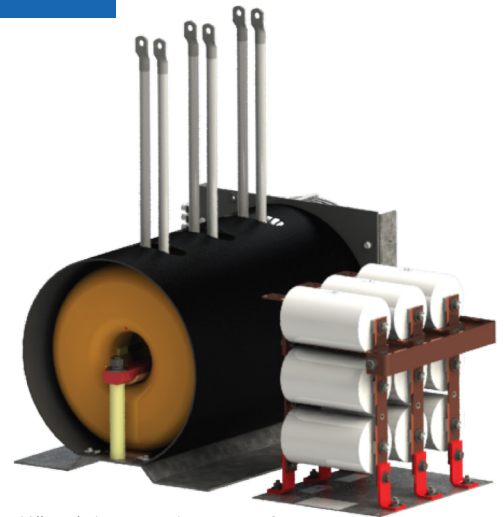


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USA

OPEN CHASSIS

FLYING LEAD

- **Best Value Solution**
It is an affordable solution for managing unwanted harmonic distortion.
- **Customizable Installation**
Ideal for OEMs, integrators and panel builders.
- **Built-In Cooling System**
Built-in air cooling system to limit additional heat build-up in your cabinet.
- **Compact Design**
Small & lightweight so that it can easily fit in small spaces.

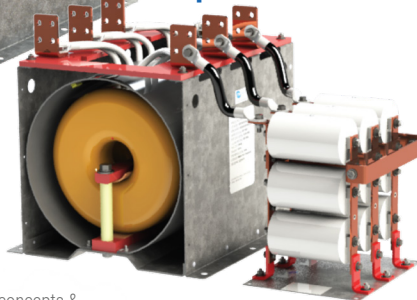


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Capacitors on Top



Capacitors on Side



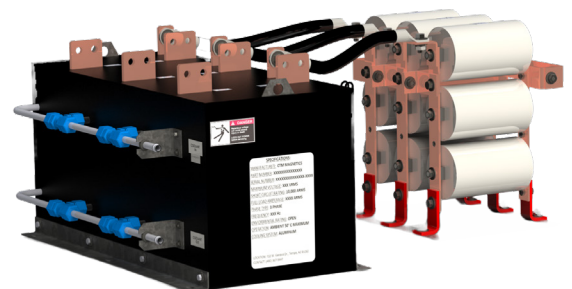
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TERMINAL LEAD

- **Easy to Integrate & Install**
Terminals align directly with connections for smooth install.
- **Compact Design**
Its small footprint provides high power density packaging solutions.
- **Built-In Cooling System**
Built-in air cooling system limits additional heat build-up in your cabinet.
- **Durable Packaging**
Self contained housing and sealed caps provide robust durability.

LIQUID COOLED

- **Highest Power Density**
Superior heat removal enables smaller magnetics
- **Thermal Isolation**
97% of heat removed through coolant.
- **Rugged Design**
Military-grade sealed inductors provide reliability in harsh environments.
- **Low Audible Noise**
Superior materials & geometric shapes, result in a nearly silent solution.



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WE FIXED IT: POWER PACKAGING SOLUTIONS



magnetics

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Visit us at: ctmmagnetics.com