# WAVES EMC-EMI ENCLOSURES

Approved by



DGQA



Authorized system integrators of

Unit assisted by 🏅



Approved SABRe supplier to:





Don't let unwanted frequencies interfere with system performance. \*\*

## **Importance of EMC**

- Electromagnetic Compatibility (EMC) requires that systems/equipment be able to tolerate a specified degree of interference and not generate more than a specified amount of interference.
- EMC is becoming more important because there are so many more opportunities today for EMC issues.

## **Concept & Definitions**

• Electromagnetic Interference (EMI)

Electromagnetic emissions from a device or system that interfere with the normal operation of another device or system. -Also referred to as Radio Frequency Interference (RFI).

## • Electromagnetic Compatibility (EMC)

The ability of equipment or system to function satisfactorily in its Electromagnetic Environment (EME) without introducing intolerable electromagnetic disturbance to anything in that environment.



**Double Beadings** 

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DC UPS with EMC-EMI enclosures

Client: MTU Rolls-Royce

# **Testing Standards**

IP (Ingress Protection) Test as per IEC 60529

ET(Environmental Test ) as per JSS 55555

EMC-EMI Test as per MIL STD 461 E/F



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NLCP, Battery charger, LCD display, Transformer and Battery bank with EMC-EMI enclosures IP44,IP55 & IP56

Client: Indian Navy, INS Vikrant



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Tolerate a specified degree of interference,



Not generate more than a specified amount of interference



Be self-compatible

We offer panels with EMC-EMI enclosures in both assembled and ready to assemble forms.

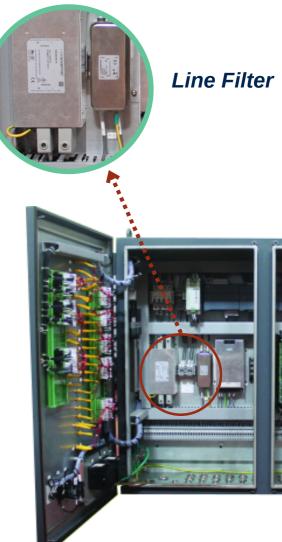


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# **Standard Dimensions**

Width (in mm)	Height (in mm)	Depth (in mm)
300	300	210
500	400	250
500	550	250
600	700	300
650	850	350
600	1500	475
800	1000	300
800	1000	350



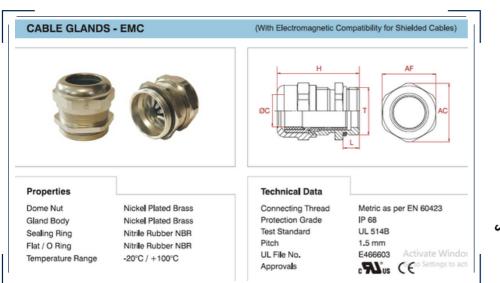




## Other Dimensions are available upon request.

- Enclosure Material: 2mm thickness GI sheet
- Protection: IP22 /44/54/55/56
- Color:

Light Grey (RAL 7035) Light Admiralty Grey (RAL 631) Dark Admiralty Grey (RAL 632)





NLCP,LCD Display,Relay box & Junction boxes with EMC-EMI enclosures IP54 & IP56

Client: GRSE Survey Vessel Large (SVL) Project

Sewage Treatment Plant Control Panel with EMC-EMI enclosures **IP55** Client: GRSE Survey Vessel Large(SVL) Project



Junction Box with EMC-EMI enclosure IP54 Client: Cochin Shipyard Limited

Sewage Treatment Plant H2S Panel with EMC-EMI enclosure IP55 Client: GRSE Survey Vessel Large(SVL) Project





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# WAVES ELECTRONICS

### **OUR PRODUCTS**

- Battery Chargers
- Navigation Light Control Panel
- Main Switch Board
- Emergency Switch Boards
- Shore Connection Box
- Consoles
- EMI-EMC Enclosures

## **REACH US**

Waves Electronics Pvt. Ltd Kizhakkambalam-683562 Ernakulam, Kerala, India

- Junction Box
- Distribution Board
- Starters/Motor Control Center
- Soft Starter Panels
- Variable Frequency Drive Panels
- Automatic Power Factor Correction Panel

#### and more ...

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