



**Enjoy
EVolution
with
IVY METERING**

With the development of Electrical vehicle charging, IVY METERING insists "enjoy EVolution". Our wide portfolio of metering instruments and electronic components are used in many industries - smart meters, solar panels, electric vehicle chargers, industrial controls, IoT, and more. IVY partners all over the world, IVY provides customized ev charging solutions to meet the needs of EV charging safety and leakage protection.



EM613001 DC Meter



AX Series AC-DC Module



MD0630T01A RCD



IM-NE801 Power Relay



Split Core M-bus Current Sensor



IM601 Latching Relay

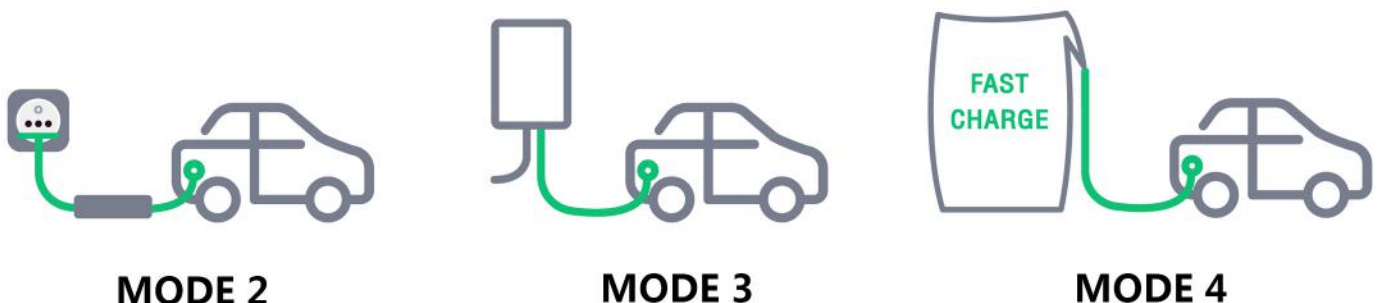
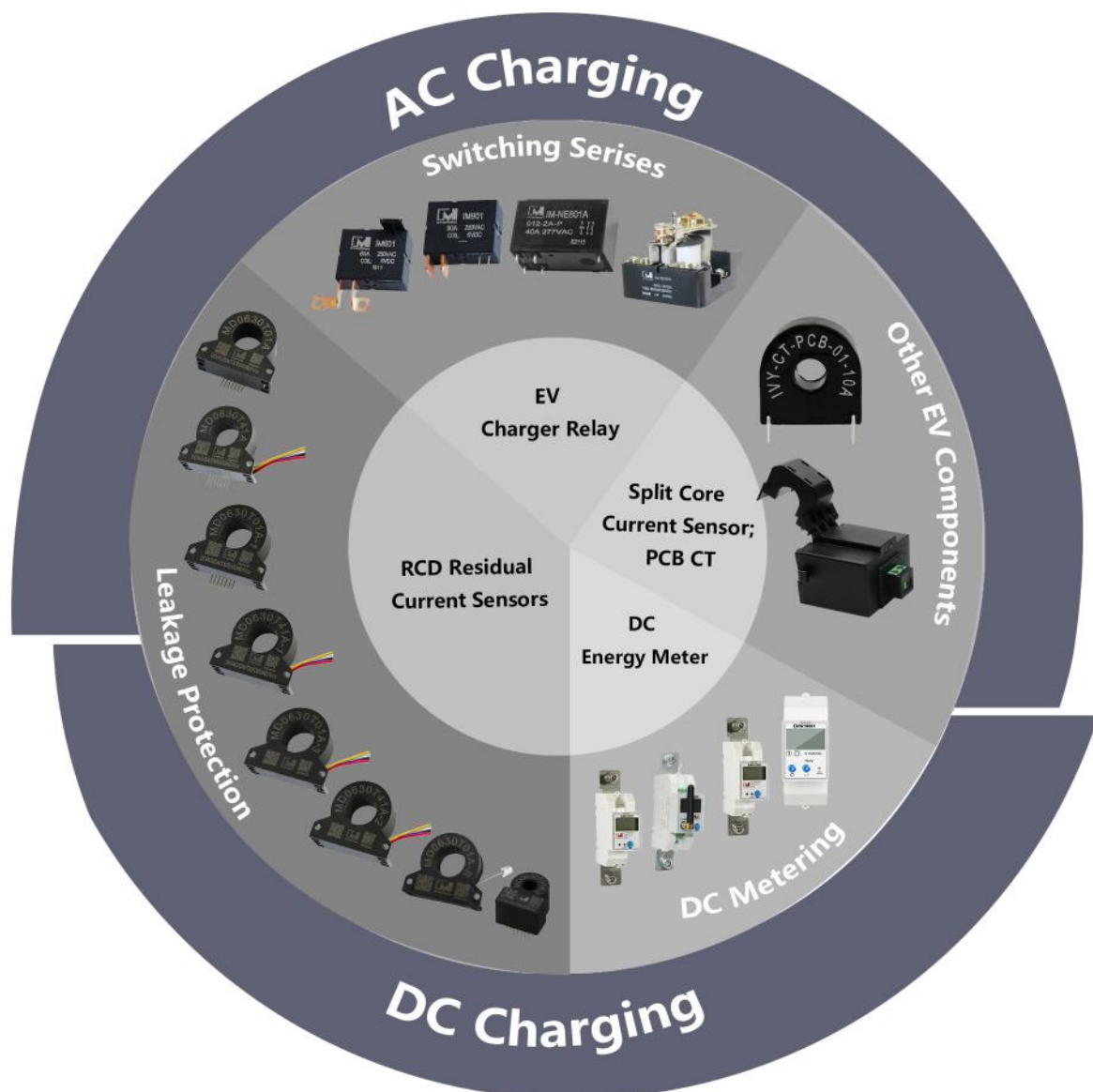


10A/50A PCB CT



EV Charger Components for EV Charging

Electrical safety both in the electric vehicle and in the charging infrastructure are of key importance when using of electric vehicles (EV). As in all areas of everyday life, protecting people from the hazards caused by electrical current is top priority here , so some EV charger components are vital to charging protection.



Why Choose IVY EV Charger Components?



Leakage Current Sensor

Small Current Measurement; DC:2~15mA, AC 3~100mA (6mA DC 30mA AC)
 Small Size; Integration Design; Vertical(Pin, Pin&Cable Type)/Horizontal (Cable Type) Mount Optional
 AC DC Leakage Data Readable; 3 Way Alarm Outputs; Digital Signal Output
 URAT/IR Comm with Modbus Protocol; TUV(IEC Standard)UL/IS17017/CE-EMC
 Type B RCD/RCMU for EV Charger Protection; Electrical Safety at Low Cost (Compared to Type B RCCB)



Three Phase AC-DC Power Module

Input 110~450VAC; Output 5~15VDC;
 Three Phase Input; Single/Dual Way Output

PCB Current Transformer

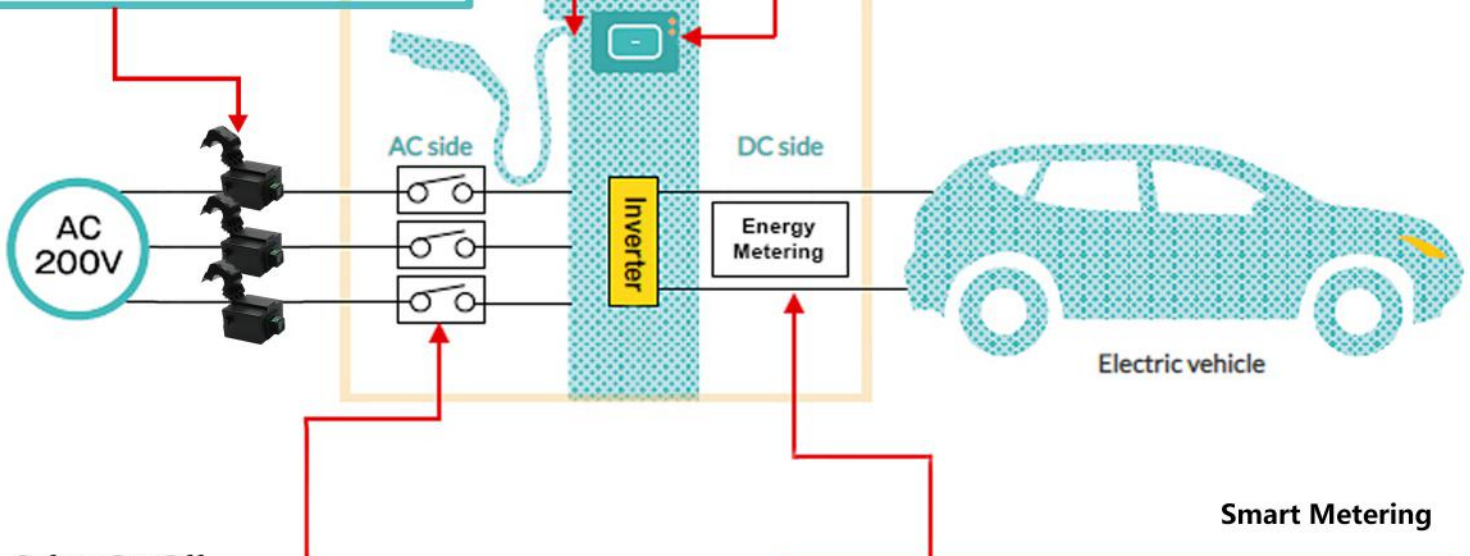
Measuring Range:1(60A)/0.5mA;
 High Accuracy

Charging Protection

D129072 Split Core AC Current Sensor

Measuring Current Range: 200mA~100A
 Split Core Type, Easy to Install
 Real-time Monitoring, Over-current/
 Over-temperature Protection
 With M-BUS Communication,
 Current/Temperature Value Readable

Circuit Protection



Safety Cut Off



IM601 IM901 IM-NE801 IM-NE802

EV Charger Relay

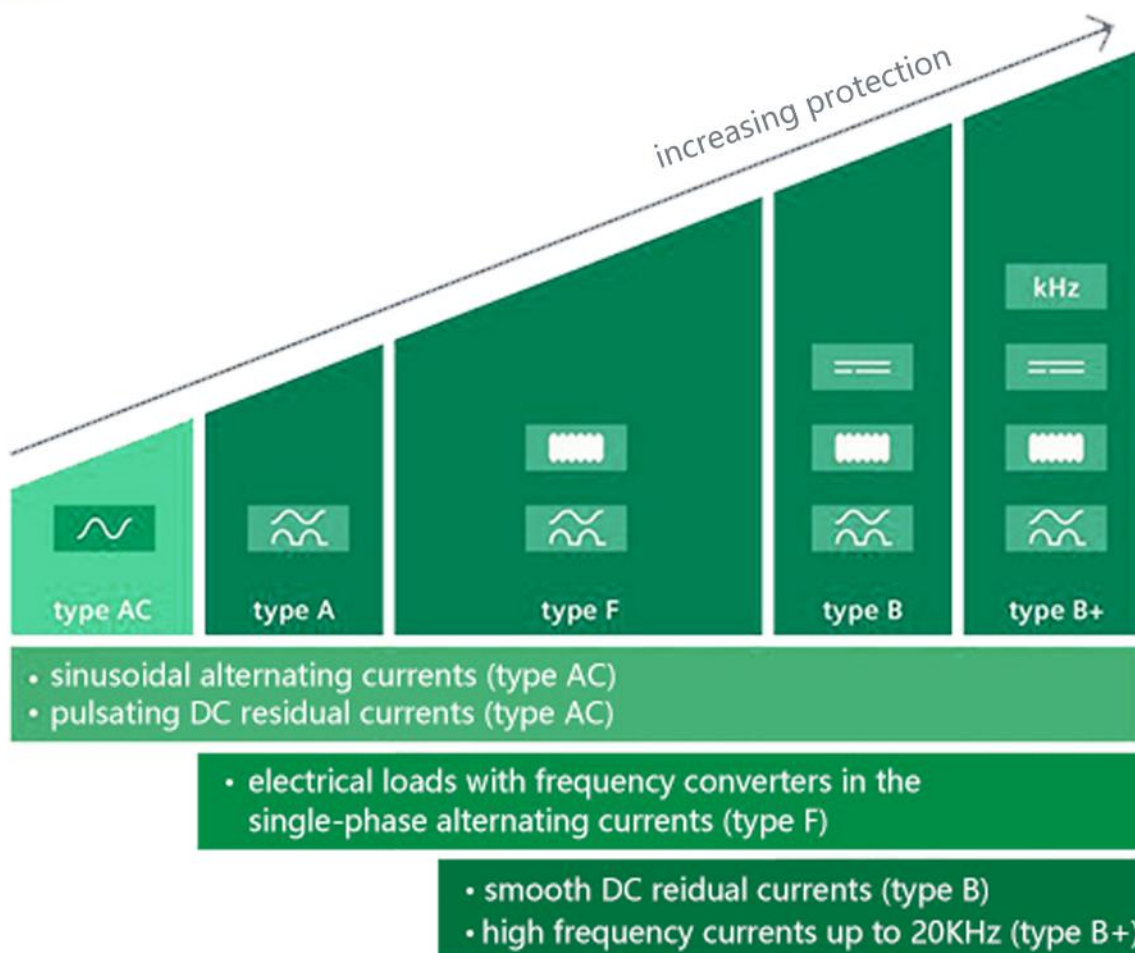
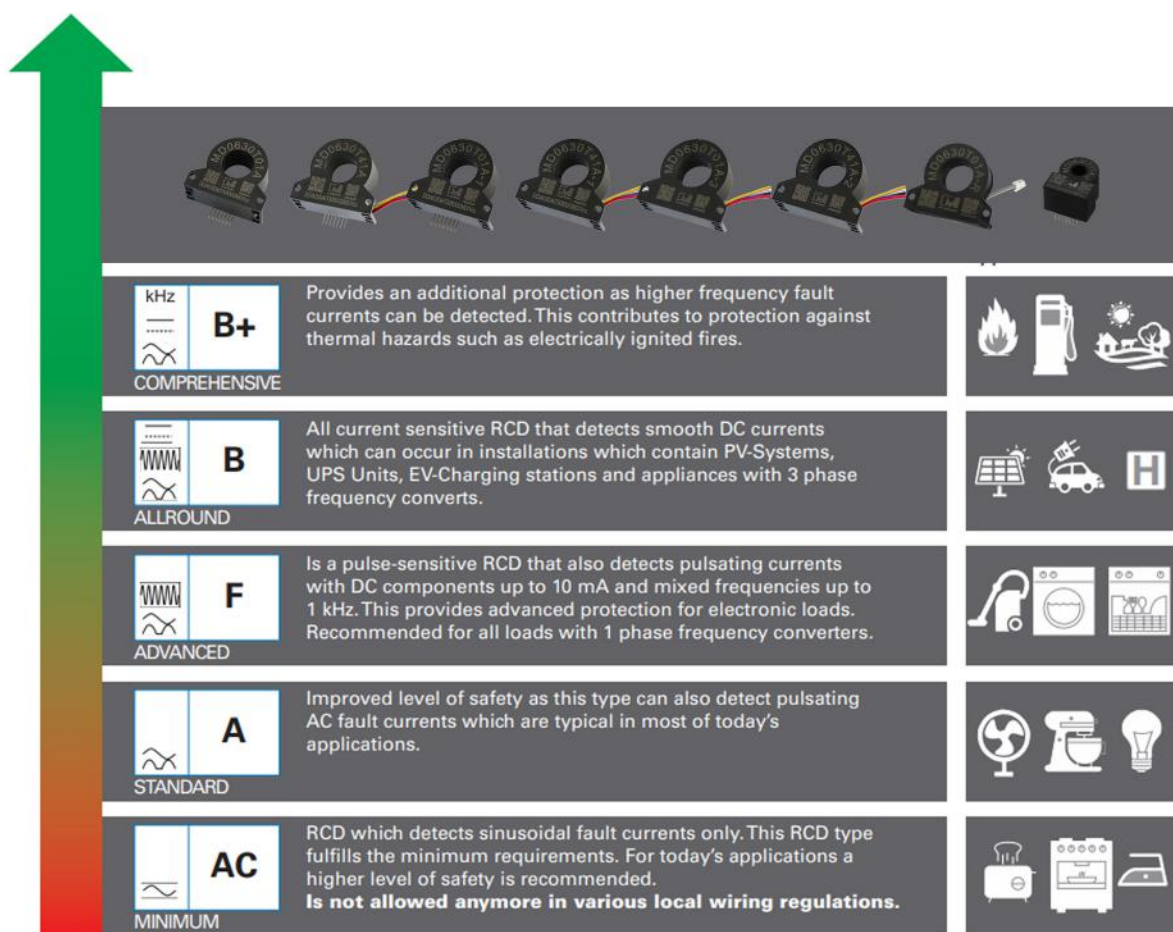
UL/TUV Certified;
 Contact Gap 0.8mm~3mm;
 Withstand Voltage 4000V
 (IM601:Bistable 32A/40A/60A 250VAC 1A/1B)
 (IM901:Bistable 90A 250VAC 1A/1B)
 (IM-NE801:Monostable 32A 40A 277VAC 2A)
 (IM-NE802:Monostable 100A 28VDC/250VAC 1A-SPST)



DC Meter

Din Rail Mount DC Power Meter; High Accuracy of Class 1
 Measuring Range: 10~240A/2000A, DC8~48V/40~400V/5~1000V;
 External and Internal Shunt Sampling, Bi-directional Measurement
 RS485/NB-IOT Communication with DTL645/Modbus Protocol
 Over-current/ Over-load Alarming
 LCD Backlight, Multi-tariffs(RTC), Monthly Records
 Built-in Auxiliary Relay for Over-current Disconnect

MD Series RCD Protection Leakage Current Sensor



Why Choose IVY METERING's EV Charger Parts

In the charging industry the IVY METERING provides EV charger components for Level 1, 2, and 3 charging stations. Here it is of great importance to ensure reliable and accurate measurements to enable the charging station to automatically output alarm signal when a hazardous electrical situation occurs(leakage currents/residual currents). IVY residual current devices are capable of detecting miniscule fault currents in the mA range out of multiple to hundreds of amps of full-load current. This for single-phase AC, DC and even 3-phase systems. The mA leakage current sensors usually have self-check capabilities to output digital signal in case of a failure. These safety features have been evaluated by CE-EMC/IEC and enable the integrator to provide an already approved safety solution in their EVSE.

With AC charging, the electric vehicle is charged at the home socket, the required charging infrastructure is limited to the charging cable. This special charging cable must have integrated monitoring and the vehicle must have internal charging electronics. IVY offers manufacturers of Mode 2 charging cables patented residual current monitoring sensors for use in IC-CPDs in accordance with IEC 62752.

AC charging stations are often found in homes, hotels or workplaces because AC charging uses the usual 1 or 3 phase low voltage. This means that AC charging has the advantage that the required charging infrastructure can be kept relatively simple. The residual current transformer of small current measurement can be used to continuously monitor the residual current of the charging station, quickly and reliably detect any situation exceeding the limit value, and output an alarm digital signal if there is an abnormality. Due to the permissible combination of residual current sensor and type A RCD, expensive type B RCCBs are not required, and the vehicle owner can be notified of the deterioration of the residual current value before charging is interrupted.

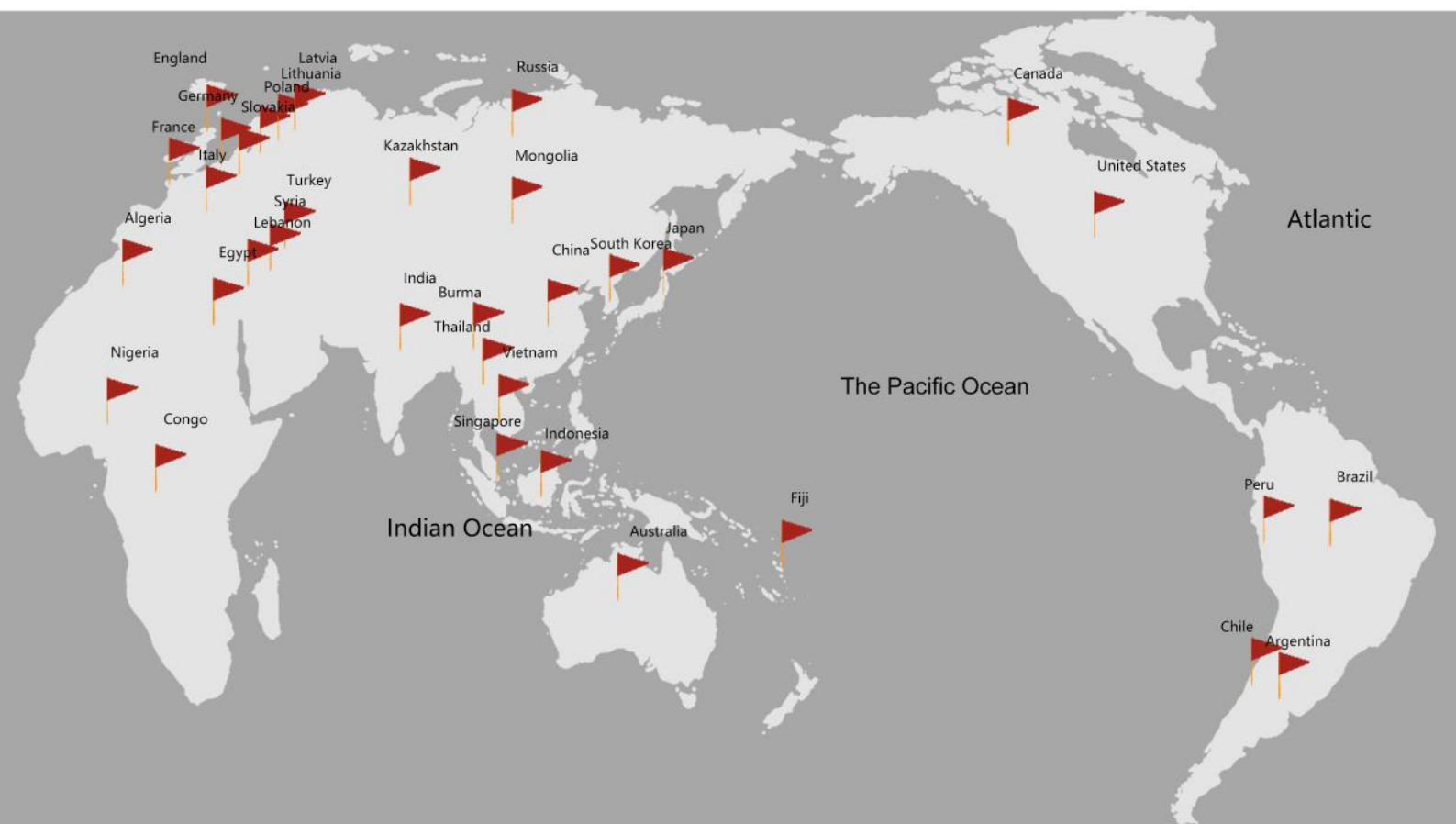
With DC charging, vehicles with significantly higher power are charged quickly. AC DC charging station, also known as a fast charging station, When it comes to DC charging, there are two common charging standards. In addition to the CCS standard (Combined Charging System) set in Europe, the Japanese charging standard CHAdeMO (according to "CHArge de MOVe") is also used for most vehicles from Asian manufacturers. The new residual current monitoring device (MD series leakage current sensor) supports both charging standards equally. IVY has now responded to the demands of the market.





Enjoy EVolution

28+ Years' Experiences
80,000m² of Own Factory
Exported to 68+ Countries



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