

Declaration about the use of RCD devices for EcoFlow PowerOcean Hybrid Inverter

Hereby confirms, that the inverters

Single phase: EF HD-P1-3K-S1, EF HD-P1-3.68K-S1, EF HD-P1-4.6K-S1, EF HD-P1-5K-S1 , EF HD-P1-6K-S1

Three phase: EF HD-P3-6K0-S1, EF HD-P3-8K0-S1, EF HD-P3-10K0-S1, EF HD-P3-12K0-S1

Three phase plus: EF HD-P3-15K0-S1, EF HD-P3-20K0-S1, EF HD-P3-25K0-S1, EF HD-P3-29K9-S1

have already integrated RCMU (residual current monitoring unit) inside inverter, and comply with RCD Type B in according to the standards IEC 62109-2 and IEC/EN 62423. The inverters thus meet the requirements specified in IEC60364-7-712 that they are not able to feed in DC residual currents.

When the sudden change residual current exceeds the preset threshold 30 mA, the inverter shall disconnect within the time limit protect against possible electric shock. This value is set according to clause 4.8.3.5 in IEC 62109-2: Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters.

RCD Type	Symbols	Sensitivity to residual current	Standards
AC		a.c. current sensitive	IEC/EN 61008 IEC/EN 61009
A		a.c. current sensitive and pulse current sensitive	IEC/EN 61008 IEC/EN 61009
F		a.c. current sensitive and pulse current sensitive	IEC/EN 62443
B		universal current sensitive	IEC/EN 62443 IEC/TR 60755

Due to the internal RCMU of the hybrid inverter, it is not necessary for additional RCD protection in grid port unless otherwise specified.

If additional RCD required by local grid code specified, we recommend that a Type A RCD rated to 100mA is used in grid port.

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On behalf of EcoFlow
Inc.

November 3, 2025