Junction Box "J-Box"

◷ **Available Fall 2028**



The ANEW Junction Box (J-Box) — one sealed NEMA 4X enclosure that lands ANEW power generation onto a high-voltage single-phase or three-phase AC bus and onto a high-voltage DC bus. 2″ conduit knockouts on five faces, colour-coded MC4-style connectors, self-healing fuses in holders you can change by hand, and an expansion port onto the ANEW Energy E2X network.

AC: one lane per phase On the AC side the box is deliberately boring — and that is the point. Single-phase or three-phase, each conductor lands on its own labelled terminal, crosses its own fuse, and leaves on the matching terminal opposite. Nothing shares a lane, so a fault is one lane's problem and a technician can see which one at a glance. Because the labelling, the colour rings and the connector bodies all carry the same code, the box will be wired the same way in a factory in Ohio and on a hillside in Costa Rica. DC: the same discipline The DC side reuses the same architecture — labelled lanes, colour-coded MC4-style connectors, one self-healing fuse per lane. What changes is the label; the discipline doesn't. And the J-Box delivers onto the high-voltage DC bus regardless of the volts presented to it, so a mixed site doesn't need a different box per source. That is what lets a single enclosure sit behind generation, storage and distribution alike. Cover-off views are engineering renders of the current design revision. Terminal counts, ratings and certified markings are finalised at certification. E2X · Energy to Everything A junction box that reports in. A conventional junction box is a dead end — power goes through it and nobody downstream knows anything about it. The J-Box has an expansion port and a communications port, which put it on the ANEW Energy E2X network alongside the rest of the system. That means the point where power lands is also a point the system can see: which lanes are live, which fuse needs a hand, what the connection is actually carrying. The Communications Platform takes it from there — it produces the trusted measurement and signs it at source. Expansion port — brings the box onto the E2X network Communications port — reports to the ANEW Communications Platform Lane-level visibility instead of a silent box on a wall Same network as ANEW generation, storage and distribution Meet the Communications Platform → See the Any Energy Transformer Ports & Network

Expansion	Port onto the ANEW E2X network
Comms	Port to the Communications Platform
Reports	Lane state at the connection point
Pairs with	All ANEW generation & storage

Enclosure	**NEMA 4X — ports stay sealed**

Electrical

Type	**Junction box — "J-Box"**
AC bus	**High voltage — single & three phase**
DC bus	**High voltage — regardless of volts**
Lanes	**L1 · L2 · L3 · N — labelled both sides**
Bus bars	**Clamped, one bridge per lane**
Connectors	**MC4-style — colour-coded per lane**
Protection	**One self-healing fuse per lane**
Contacts	**Gold-plated**

Enclosure, Ports & Service

Rating	**NEMA 4X — sealed, corrosion-resistant**
Conduit	**2″ knockouts on five faces**
Seal	**Full-perimeter gasket**
Cover	**Clear — inspect without breaking the seal**
Ports	**Expansion (E2X) + communications**
Service	**Fuses replaced by hand, no tool**
Environment	**Rooftop · roadside · farm · coastal**
Supports	**All ANEW generation, storage & distribution**
Targeted service life	**50 years**

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