

TECO Energy Solutions

Full Solutions Guide

Product Catalogue
2026

TECO Energy Solution provides one local team across the entire power path, from transformers and busway to solar and battery storage. Every solution is designed and manufactured by TECO, backed by decades of global and local engineering.

TECOBAR[®] Busway



TECO LOW VOLTAGE METAL ENCLOSED SANDWICH

- Rated current: 400 A - 6,300 A
- Voltage: up to 1,000 V
- Overload capacity: +20% for 2 hours
- Conductor: copper or aluminium
- Frequency: 50 Hz / 60 Hz
- Standards: IEC 61439-6
- Indoor protection IP40~IP66
- Outdoor protection IP66/IP67/IP68
- Modular elements (straights, elbows, tees) enable flexible layouts and reduced installation time
- Up to 5× less wiring than parallel cable; frees the riser shaft
- Riser space returns as leasable floor area
- Rides a peak without oversizing the run
- For high-rise and commercial buildings



DATA CENTRE - TECO SERVER RACK BUSWAY

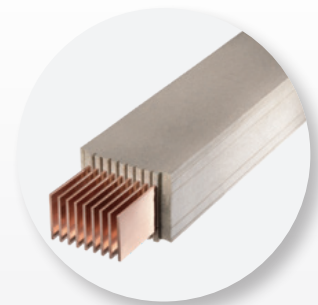
- Rated current: 250 A - 800 A
- Overload capacity: +20% for 2 hours (add it under the voltage point)
- Voltage: up to 800V DC and 1000V AC
- Conductor: copper (99.9% purity, >98% IACS)
- Frequency: 50 Hz / 60 Hz
- Standards: IEC 61439-6
- Indoor protection IP40~IP66
- Busway System: 3P4W+Housing Ground
- Open-track design allows PIUs to be installed at any tap-off position along the busway
- Supports hot-swappable PIUs (Plug-in Units)
- Compatible with third-party accessories such as power meters





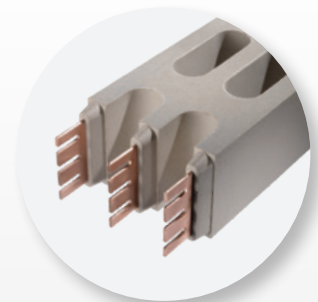
TECO LOW VOLTAGE CAST-RESIN BUSWAY

- Rated voltage: 1 kV
- Rated current: 400 A – 6,569 A
- Conductors: copper (99.9% purity, >98% IACS) or aluminium
- Insulation: epoxy resin with inorganic fillers, Class H 180 °C
- Frequency: 50 Hz / 60 Hz
- Standards: IEC 61439-6
- Degree of protection: IP69 (dust-tight, immersion >1 m)
- Mechanical impact: IK11 (5 kg × 40 cm = 20 J)
- Overload capacity: +20% for 2 hours (add it below mechanical impact)
- Fire resistance: IEC 60331-21, BS 6387, CNS 14286 (950 °C/3 h; 840 °C/30 min)
- Seismic: IEEE 693 (Zone 4) (below the Fire resistance)
- Explosion proof: IEC 60079 Ex mb IIC Gb
- Anti-corrosion: verified in salt mist testing
- Service life: 60+ years in testing, no maintenance after installation



TECO MEDIUM VOLTAGE CAST-RESIN BUSWAY

- Voltage classes: 7.2 kV / 17.5 kV / 24 kV
- Rated current: 1,000 A – 6,300 A
- System: 3Φ3W, 50 Hz / 60 Hz
- Short-circuit withstand: 25kA – 120 kA / 1 s
- Dielectric withstand: 50 kV/1 min (PE type)
- Conductors: copper (99.9% purity, >98% IACS) or aluminium
- Insulation: epoxy resin with 85% inorganic volcanic filler, high thermal dissipation, self-extinguishing
- Degree of protection: IP69 (dust-tight, water immersion >1 m)
- Mechanical impact: IK11 (20 J)
- Seismic: tested to magnitude >7 earthquakes (0.8 G tri-axial)
- Operating conditions: -45 °C to +65 °C, humidity 0-100%, installation altitude ≤1,000 m
- Standards: IEC 62271-200 / 201, IEEE C37.23
- Service life: 60+ years in testing, no maintenance after installation



TECO Transformers

TECO DRY CAST RESIN TRANSFORMERS

- Rating up to 36 kV
- Insulation class: F (155 °C)
- Power rating: up to 5,000 kVA
- Partial discharge level: <10pC high-voltage windings vacuum-cast in epoxy, fully encapsulated
- Core: grain-oriented silicon steel, step-lap construction
- Windings: copper or aluminium, selectable
- Standards: type-tested to IEC 60076-11; ISO 9001, ISO 45001, TÜV Rheinland

Main features

- Cooling: AN / AF
- Enclosure: IP20 / IP23 / IP32
- Oil-free, no routine servicing
- Safe for indoor and occupied sites
- Low no-load and load losses, so lower running cost



TECO OIL FILLED DISTRIBUTION TRANSFORMERS

- Rating: 1 phase and 3 phase up to 20 MVA and 33 kV
- Standard: AS/NZS 60076
- High lightning-impulse (BIL) withstand
- On-load tap changer (OLTC)
- Thermal protection

Main features

- Suited to bushfire zones, salt-laden coasts and sustained heat
- Rides through transient surges
- Holds voltage steady as demand swings, through the OLTC
- Thermal protection catches an internal fault before it becomes an outage



TECO OIL-FILLED POWER TRANSFORMERS

- Rating from 25 kVA to 150 MVA 150kV class
- Windings: continuously transposed conductors (CTC), net-wrapped
- Core: grain-oriented, step-lap stacked
- Noise: under 67 dB on the larger units
- Insulation drying: vacuum and vapour phase before filling
- Factory tests: lightning impulse, induced voltage Partial discharge: ≤ 70 pC, temperature rise, short-circuit withstand, test capability: up to 150 kV

Main features

- Cooling: ONAN / ONAF
- Withstands a short-circuit without deforming
- Winding runs cool and holds together under fault
- Built for high, continuous load: substations, mine sites, grid connections



Generate power on your site and hold it, delivered turnkey as a single EPCM contract. Solar PV, modular battery storage and an energy management system.

Solar Plants and Battery Storage (BESS)

TECHNICAL DATA

- Configuration: off-grid, hybrid, or grid-connected
- Coupling: DC-coupled for the highest round-trip efficiency, or AC-coupled to retrofit an existing site
- Power conversion efficiency: up to 99%
- Control: grid-forming or grid-following
- Energy management: frequency regulation and FCAS, peak shaving, PV smoothing, spinning reserve, load balancing
- Battery: modular, compatible with every major chemistry
- Capacity: modular and scalable, sized per project
- Standards: AS/NZS 5139, AS 4777.2, IEC 62619, IEC 63056, NFPA 855

Main features

- Proven at scale: up to 60 MW / 80 MWh
- One EPCM contract from feasibility to O&M
- Full scope: resource and grid-connection studies, bankable tier-one PV and batteries, construction by ISO-certified crews, then remote monitoring and O&M
- Displaces diesel and meets emission targets on remote and off-grid sites
- Holds frequency and rides through solar intermittency without dropping a process





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