

Q3 AC Connection Box | 250 A

Modular AC Connection Box for PV Inverters

Part Number	Q3-AC-47712
Version	Indoor (G3) IP66 – powder-coated sheet steel enclosure or Outdoor (G4) IP66 – galvanized sheet steel enclosure with UV-resistant coating
System Types	TN-C, TN-S and TN-C-S systems (others on request)
Application	For medium-sized commercial installations and multiple inverter applications

Technical Data

Rated Current	250 A
Busbar System	Up to 250 A, finger-safe (transparent protective cover), identification according to EN 60445
Enclosure (Indoor)	Indoor (G3) IP66 – powder-coated sheet steel enclosure
Enclosure (Outdoor)	Outdoor (G4) IP66 – galvanized sheet steel enclosure with UV-resistant coating
Enclosure Dimensions	600 × 800 mm (depth project-specific, e.g. 250–300 mm)
Cable Entries	M cable glands as required (typ. M20–M75), including strain relief
Documentation / CE	Labelling according to DIN/EN 60445; documentation pocket and circuit diagram; CE marking
Note	For multiple inverter outputs or large cable glands, larger enclosures may be required

Options

Surge Protection	Type 1+2+3 SPD, 3+1 configuration (TN-C-S), optional remote signalling contact; pre-wired fuse switch on terminals
Back-up Fuse / Short-Circuit Protection	Depending on the supply configuration; for high upstream fuse ratings, SPD back-up fuse according to the SPD datasheet.
Load Break Switch / NH Fuse Switch Disconnecter	NH1 fuse switch disconnecter with/without fuse links; NH1 gG 100–250 A
PEN Test Disconnect Terminal	Tool-operated PEN disconnect terminal with test facilities; PE upstream / N downstream of disconnect point
Finger Protection	Transparent finger-safe covers for busbars and terminals
Cable Entry Kits	Pre-assembled kits (e.g. B. M32/M40/M50) including locknuts and seals
Accessories	Terminal strips, equipotential bonding strap, marking kits, strain reliefs

Standards & CE

EN 61439-1/-2 Low-voltage switchgear and controlgear assemblies	EN 62208 Empty enclosures for low-voltage switchgear assemblies
EN 60947-1/-3 Switchgear and controlgear (load break switches / fuse switch disconnectors)	EN 61643-11 Surge protective devices
EN 60445 Identification of equipment terminals and conductors	EN 60529 Degrees of protection (IP)

EU Directives: 2014/35/EU (LVD) | 2014/30/EU (EMC) | 2011/65/EU (RoHS)

The actual equipment configuration and applicable standards depend on the specific project execution.