

Residential electrical panels are the heart of any home's electrical system. Essential for safety and efficient energy management, these panels centralise electrical circuits and connections, ensuring that energy is distributed correctly and safely throughout the home. Equipped with circuit breakers, fuses and relays, the switchboards control and protect the household electrical system from overloads and short circuits, preventing safety hazards. Modern and configurable, they are designed to be easily accessible and manageable.



Alternating switchboard ac photovoltaics for single-phase systems

Power	3 / 6 kWp
Single-phase inverter	1
No. 1 residual current circuit breaker	1P+N 20A/25A/32A 6kA 300mA Class A
Single-phase surge arrester	class II I _{max} 20kA
Degree of protection Panel	IP65 Class II
dimensions (BxHxD)	164 x 200 x 116 mm



AR-QIT3L
AR-QIT6L

Single-phase dc/ac 1 string

DC side:	
No. 1 2P switch fuse holder with fuses 12A - 1000VDC	No. 1 Surge arrester
	600VDC
No. 1 Underload disconnector	12/16A 600VDC



AC side:	
No. 1 earth leakage circuit breaker (1P+N) (20A)	6kA 300mA Class A
No. 1 Single-phase surge arrester Protection class	class II I _{max} 20kA IP65
Segregation between DC/AC	
Declaration of conformity Panel	CEI EN 61439-1/2
dimensions (BxHxD)	340 x 432 x 161 mm

AR-UBM1101L

Single-phase dc/ac switchbox 2 independent strings

DC side:	
No. 2 2P switch fuse holder with fuses 12A - 1000VDC	No. 2 Surge arrester
	600VDC
No. 2 Underload disconnector	12/16A 600VDC
AC side:	
No. 1 earth leakage circuit breaker (1P+N) (20A)	6kA 300mA class A
No. 1 Single-phase surge arrester Protection class	class II I _{max} 20kA IP65
Segregation between DC/AC	CEI EN 61439-1/2
Declaration of conformity Panel	340 x 432 x 161 mm
dimensions (BxHxD)	



AR-UBM2102L

Alternating switchboard AC photovoltaics for three-phase systems

Three-phase inverter power	6 / 11 kW
No. 1 thermal-magnetic circuit breaker with differential lockout	4x16/20A 6KA 300mA class A
Three-phase overvoltage arrester Protection class	class II I _{max} 20kA IP65 CEI EN 61439-1/2
Declaration of conformity	1/2
Panelboard measurements (BxHxD)	448 x 282 x 141 mm



AR-QACT6L
AR-QACT10L

Single-phase dc/ac 2 strings

DC side:	
N°2 2P switch-disconnector fuse holder with fuses 12A - 1000VDC	N°1 Surge arrester
	600VDC
No. 1 Underload disconnector	32A-600VDC
AC side:	
No. 1 earth leakage circuit breaker (1P+N) (20A)	6kA 300mA Class A
No. 1 Single-phase surge arrester Protection class	class II I _{max} 20kA IP65
Segregation between DC/AC	
Declaration of conformity Panel	CEI EN 61439-1/2
dimensions (BxHxD)	340 x 432 x 161 mm



AR-UBM1102L

Single-box dc/ac switchgear 2 independent three-phase strings

DC side:	
No. 2 2P switch fuse holder with fuses 12A - 1000VDC	No. 2 Surge arrester
	600VDC
No. 2 Underload disconnector	12/16A 600VDC



AC side:	
No. 1 thermal-magnetic circuit breaker with differential lockout	4x16/20A 6KA 300mA class A
Three-phase overvoltage arrester Protection class	class II I _{max} 20kA IP65
Segregation between DC/AC	
Declaration of conformity Panel	CEI EN 61439-1/2
dimensions (BxHxD)	340 x 432 x 161 mm

AR-UBT2102L

Field switchboard 2 strings in parallel



Strings	2
2 2P fuse holder 1 Surge arrester	4 fus. 12A - 1000VDC
1 Disconnector	2P+ground (600/1000VDC)
Degree of protection Declaration of conformity	32A (600/800/1000VDC)
Panel dimensions (BxHxD)	IP65 class II CEI EN 61439-1/2 340 x 282 x 141 mm

AR-QCM1602L600VDC

AR-QCM1802L800VDC

Single-box dc/ac switch cabinet 2 three-phase strings



DC side:

No. 2 2P switch fuse holder with fuses	12A - 1000VDC
No. 1 Surge arrester No. 1	600VDC
Underload disconnector	32A - 600VDC

AC side:

No. 1 three-phase circuit breaker with differential lockout	4x16A - 6kA 300mA class A
No. 1 Three-phase surge arrester Protection class	class II I _{max} 20kA
Segregation between DC/AC	IP65 Class II
Declaration of conformity	CEI EN 61439-1/2
Panel dimensions (BxHxD)	448 x 432 x 161 mm

AR-UBT1102L

Field switchboard 2 independent strings



Independent strings	2
2 2P fuse holder 2 Surge arrester	4 fus. 12A
2 Disconnector	2P+ground (600/1000VDC)
Degree of protection Declaration of conformity	12/16A (600/800/1000VDC)
Panel dimensions (BxHxD)	IP65 class II CEI EN 61439-1/2 340 x 432 x 161 mm

AR-QCM2602L600VDC

AR-QCM2802L800VDC

AR-QCM2102L^{1000VDC}

Fieldbus 1 string



String	1
1 2P fuse holder 1 Surge arrester	2 fus. 12A - 1000VDC
1 Disconnector	2P+ground (600/1000VDC)
Degree of protection Declaration of conformity	12/16A (600/800/1000VDC)
Panel dimensions (BxHxD)	IP65 class II CEI EN 61439-1/2 340 x 282 x 141 mm

AR-QCM1601L 600VDC

AR-QCM1801L 800VDC

AR-QCM1101L^{1000VDC}

Electrical interface panels 20/1 kWp (1 inverter)

Low-voltage with interface relay in accordance with CEI 0-21 and Annex A.70 of the grid code

TEST REPORT INCLUDED

Power	20kWp
Three-phase inverter	1
Circuit breaker (main switchboard)	63A
Release coil (latching control)	230V
1P+N switch fuse holder (for auxiliary circuit protection) 10A fuse	
3P+N isolator fuse holder (for protection interface relay voltage presence)	fuse 10A
3P+N fuse holder (overvoltage arrester protection)	fuses 32A
Three-phase surge arrester	class II I _{max} 20kA
4P contactor (interface device)	50A - AC3
Interface relays	compliant with IEC-021
Thermal-magnetic circuit breaker with differential lock (to protect the inverter)	4x40A 6 kA 300 mA Class A
Cable input/output terminal block	numbered
Degree of protection	IP 65 class II IEC
Declaration of conformity	EN 61439-1/2
Panelboard measurements (BxHxD)	400 x 610 x 257 mm

AR-QIT20/1

Electrical interface box slim 6/10/12/15 kWp

Low-voltage with interface relay in accordance with CEI 0-21 and Annex A.70 of the grid code

TEST REPORT INCLUDED



Three-phase	6/10/12/15 kWp
inverter power	1
Circuit breaker (main switchboard)	4x32A
1P+N switch fuse holder (for auxiliary circuit protection) 10A fuse	
3P+N isolator fuse holder (for protection of interface relay voltage presence)	fuse 10A
3P+N fuse holder (overvoltage arrester protection)	20A fuses
Three-phase surge arrester	class II I _{max} 20kA
4P contactor (interface device) Interface relay	26/38A - AC3 compliant with IEC-021
Thermal-magnetic circuit breaker with differential lock (to protect the inverter)	4x20A/25A/32A 6 kA 300 mA class A
Cable input/output terminal block	numbered
Protection class	IP 65 class II
Declaration of conformity	CEI EN 61439-1/2
Panelboard measurements (BxHxD)	448 x 622 x 161 mm

AR-QITS

All the paintings are composed :

- Thermal-magnetic circuit breakers of adequate rating with 6kA breaking capacity;
- 3-position manoeuvre switch with adequate capacity, for manual switching of energy/off-grids;
- Contactors of appropriate capacity, for switching automatic of enel/off-grids;
- Network presence indicator lights;
- Enclosure made of thermoplastic material with IP65 protection rating with resistance to dynamic and atmospheric agents - insulation class II - screen-printed rating plates and wire, terminal and terminal numbering system.



DRAUGHT TEST
AND TIGHTENING



DIELECTRIC
TEST



VOLTAGE AND
CURRENT CHECK



FINAL REPORT



CUSTOMISED
SOLUTION



ON-SITE
TRANSPORT



EASY
INSTALLATION



TECHNICAL
ASSISTANCE



EASY
MAINTENANCE

Manual switchboard three-phase 6/10/12 KWp



Magnetothermal switch (general from enel mains)	4x16/20/25A 6kA
Portafus. Sect. 3P+N (prot. enel grid light)	Fus. 2A
Grid presence warning light	Red
Enel/off-grid by-pass switch	32A
Thermal-magnetic circuit breaker (general off-grid)	4x16/20/25A 6kA
3P+N sect. fuse holder (off-grid grid light prot.)	Fus. 2A
Off-grid grid presence warning light	Red
Degree of protection	IP65 Class II
Declaration of Conformity	CEI EN 61439-1/2
Panelboard dimensions (BxHxD)	448 x 432 x 161 mm

AR-QOFFT6

AR-QOFFT10

AR-QOFFT12

Manual switchboard single-phase 1/3/6 KWp



Magnetothermal switch (general from enel mains)	2x10/20/32A 6kA
Portafus. Sect. 1P+N (light prot. from mains)	Fus. 2A
Grid presence warning light	Red
Enel/off-grid by-pass switch	32A
Thermal-magnetic circuit breaker (general off-grid)	2x10/20/32A 6kA
1P+N sect. fuse holder (off-grid grid light prot.)	Fus. 2A
Off-grid grid presence indicator	Red
Degree of protection	IP65 Class II
Declaration of Conformity	CEI EN 61439-1/2
Panelboard dimensions (BxHxD)	340 x 282 x 141 mm

QOFF1

QOFF3

QOFF6

Single-phase 1/3/6 KW automatic switching cabinet



Thermal-magnetic circuit breaker (general from enel grid)	2x10/20/32A 6kA
Bus holder. Sect. 1P+N (light prot. from enel grid)	Fus. 2A
Electricity grid presence indicator light	Red
N.2 contactors (2NO+2NC) for switching automatic enel/off-grid	(32/40A-AC1 ¹)
Fus. holder 1P+N (Prot. contactor coils)	Fus. 10A
Thermomagnetic circuit breaker (general off-grid)	2x10/20/32A 6kA
Bus. holder sect. 1P+N (Prot. off-grid grid light)	Fus. 2A
Off-grid grid presence indicator	Red
Degree of protection	IP65 Class II
Declaration of Conformity	CEI EN 61439-1/2
Panelboard dimensions (BxHxD)	448 x 282 x 141 mm

QOFFA1

QOFFA3

QOFFA6