STANDARD ACCESSORIES CATALOGUE

For PV + BESS Systems (60 kWh – 120 kWh – 241 kWh)

1. PV CONNECTORS

MC4 Solar Connectors

Purpose
Connection of PV strings.

Typical Specification

- MC4 compatible
- 1000/1500 VDC
- IP68
- UV resistant

60 kWh	120 kWh	241 kWh
20 pairs	40 pairs	60 pairs

2. SOLAR CABLES

PV Solar Cable

Specification

- 6 mm²
- TÜV certified
- UV resistant
- 1500 VDC

Item	60	120	241
Black Cable	500 m	1000 m	1500 m
Red Cable	500 m	1000 m	1500 m

3. GROUNDING

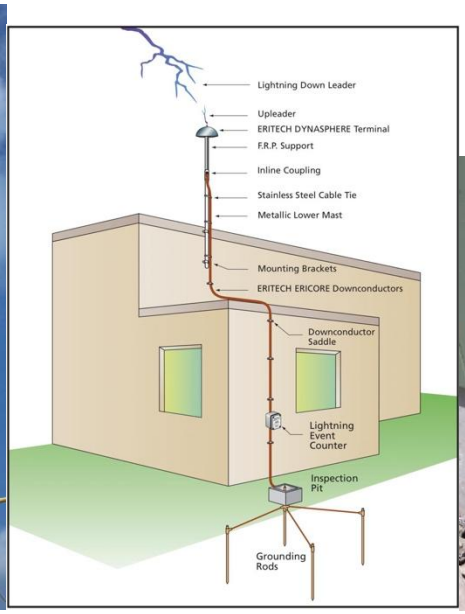
Grounding System

Includes:

- Copper bonded earth rods
- Bare copper conductor
- Earth inspection pit
- Ground clamps
- Ground busbar

Item	60	120	241
Ground Rods	4	6	8
Inspection Pits	4	6	8
Bare Copper Cable	30 m	50 m	100 m

4. LIGHTNING PROTECTION



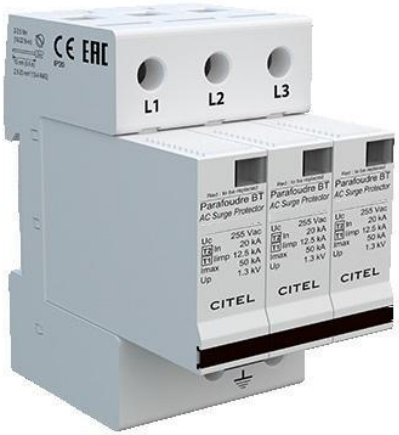
Lightning Protection

Includes

- Air terminal
- Mast
- Down conductor
- Test clamp
- Junction box

60	120	241
1 set	1 set	2 sets

5. SURGE PROTECTION



Surge Protection Devices

These devices protect the installation against lightning-induced overvoltages.

Recommended:

- DC SPD Type II
- AC SPD Type II
- Type I+II for high lightning risk areas

Item	60	120	241
DC SPD	2	4	6
AC SPD	1	1	2

6. DC PROTECTION

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Includes

- PV Combiner Box
- DC Fuse Holders
- DC Fuses
- DC Miniature Circuit Breakers
- DC Isolator Switch
- DC MCCB

Item	60	120	241
Combiner Box	2	4	6
DC Fuse Holders	20	40	60
DC Fuses	20	40	60
DC MCB	4	8	12
DC MCCB	1	1	2
DC Isolator	1	1	2

7. AC DISTRIBUTION & EXTERNAL PROTECTION

Purpose

Provide a safe interface between the **Energy Cube** and the customer's existing electrical installation.

Many existing installations (especially in Africa) do not have adequate protection or spare feeders. An external AC distribution board is therefore often required.

Recommended Equipment

Item	Typical Specification	60 kWh	120 kWh	241 kWh
Outdoor AC Distribution Board	IP65, DIN Rail	1	1	1
Main MCCB	4P - 160 A / 250 A / 400 A (according to PCS rating)	1	1	1
Auxiliary MCB 6 A	Control circuits	2	2	4
Auxiliary MCB 10 A	Auxiliary power supply	2	2	4
Auxiliary MCB 16 A	Socket / lighting	2	4	4
Auxiliary MCB 20 A	Auxiliary feeders	2	2	4
Auxiliary MCB 32 A	Spare feeder	1	2	2
RCCB / RCD	4P - 30 or 300 mA	1	2	2
AC SPD Type II	385 VAC - 4P - 40 kA	1	1	2
AC Isolator Switch	4P - 160 to 400 A	1	1	1
Emergency Stop Push Button	Lockable	1	1	1
Copper Busbar	According to current rating	1	1	1
Neutral Busbar	DIN rail mounted	1	1	1
Earth Busbar	DIN rail mounted	1	1	1
Cable Glands	M20–M50	10	15	20

8. INSTALLATION ACCESSORIES

Includes

- Cable lugs
- Ferrules
- Cable glands
- Blind plugs
- Cable trays
- Stainless steel cable ties
- UV cable ties
- Heat shrink tubing
- Cable markers
- Identification labels