LISHUI E-ABLE POWER EQUIPMENT CO., LTD
No.368 Chengbei Road, Liandu District, Lishui, Zhejiang, China
www.e-ablepower.com | sales@e-ablepower.com | WhatsApp +86 153 5558 9600

INSTALLATION MANUAL

SolarWrap GeoFlex foldable vertical module

6 / 8 / 10 / 12-sided foldable PV · HEXA · OCTA · DECA · DODE · keep for maintenance



PACKED IN THE CARTON

Foldable panel	1 module, folded flat
Corner buckles	set for the chosen side count
Set screws	M8 × 60
M6 bracket screws	fitted at delivery
Allen key	M4
Manual	1 copy

TOOLS YOU NEED

Allen driver	M4 and M6 bits
Torque wrench	10–20 N·m
Spirit level	300 mm
Access	ladder or MEWP
Cable ties	UV-rated
Two people	panel is 1.56 m open

Safety first. The panel is folded flat for transport and opens on site — keep fingers clear of the hinge line. Work at height needs a trained crew and harness. PV modules generate voltage in daylight; never short the MC4 leads.

Fixing buckle sizes differ by side count: 6-sided 120°/41 mm, 8-sided 135°/46.5 mm, 10-sided 144°/50 mm, 12-sided 150°/52 mm. Check the buckles against the pole before assembling.

STEP 1 — OPEN THE PANEL

Unfold, check, pre-fit

Check	Requirement for GeoFlex	If it fails
Pole diameter	Inside the range for the chosen side count	Change buckle set
Wall thickness	≥ 3 mm steel; ≥ 4 mm under the buckles	Fit a sleeve
Panel faces	No cracked glass or bent frame after transport	Reject before assembly
Buckles	Match the side count and angle	Swap the set

STEPS 01–09 — UNPACK, PRE-FIT, WRAP, FASTEN



01 Remove the plastic transport clips on both sides



02 Remove the M6 screws on both sides



03 Open the panel, take out the fixing buckles



04 Fix the corners top and bottom, MC4 side up



05 Wrap the panel round the pole, fasten the buckles



06 Insert the remaining corner buckles



07 Tighten the M6 screws with the Allen key



08 Adjust position, tighten the M8×60 screws

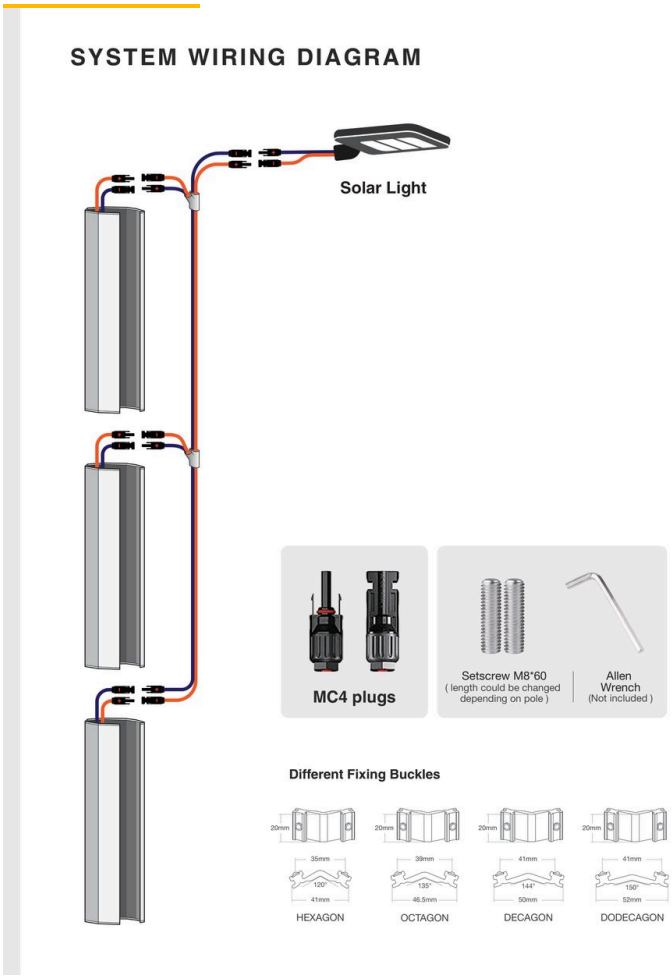


09 Repeat for the second panel section

> **The transport clips are not spare parts.** They hold the panel closed in the carton; once removed the panel opens under its own weight. Open it flat on the ground, never on the pole.

STEP 2 — SYSTEM WIRING

Connect the modules to the controller



Factory system wiring diagram — modules to controller and light

WIRING RULES

Orientation	MC4 side faces up so the joint stays above the water line
Polarity	Male = positive; female = negative
Between modules	300 mm adapter; never couple module leads directly
Controller	MPPT only
String	Vmp adds down the pole; check against the controller window

BEFORE YOU CLOSE THE PANEL

- ☐ All corner buckles seated in the frame groove.
- ☐ M8 × 60 set screws tight against the pole.
- ☐ Unused MC4 pair capped at the last section.
- ☐ M6 screws torqued on both upper and lower rails.
- ☐ MC4 side facing up; joint above the water line.
- ☐ Serial number photographed and recorded.

STEP 3 — COMMISSION AND HAND OVER

Set it up, then sign it off

COMMISSIONING

Item	Setting / check
Array profile	Enter the installed array voltage and current
Battery type	LiFePO4, window matched to the pack datasheet
Dimming profile	Match to the site's operating hours
Output check	Measure Voc and Isc at midday; within 5% of nameplate

TROUBLESHOOTING

Symptom	Likely cause	Action
Panel rattles on pole	Buckle not seated in the frame groove	Re-seat and re-torque
Joint gap at the closing edge	Wrong buckle angle for the side count	Fit the correct set
No output at midday	MC4 open or polarity reversed	Check joints; male = positive

MAINTENANCE

Every 6 months — check buckles and screws; re-torque if settled.

After a storm — check frame alignment and glass for impact damage.

Every 12 months — clean the glass with water only.

Never — open the panel while it is on the pole.

HANDOVER RECORD

Site / project		Install date	
Module serial no.		Side count	
Pole diameter		Clamp height	
Measured Voc		Measured Isc	
Installer		Signature	

SolarWrap GeoFlex carries a **3-year** warranty against manufacturing defects in materials and workmanship from the shipment date, covering the panel and its buckles. It excludes damage from incorrect installation, unauthorised modification, lightning, storm loads above the tested wind class and normal glass soiling.