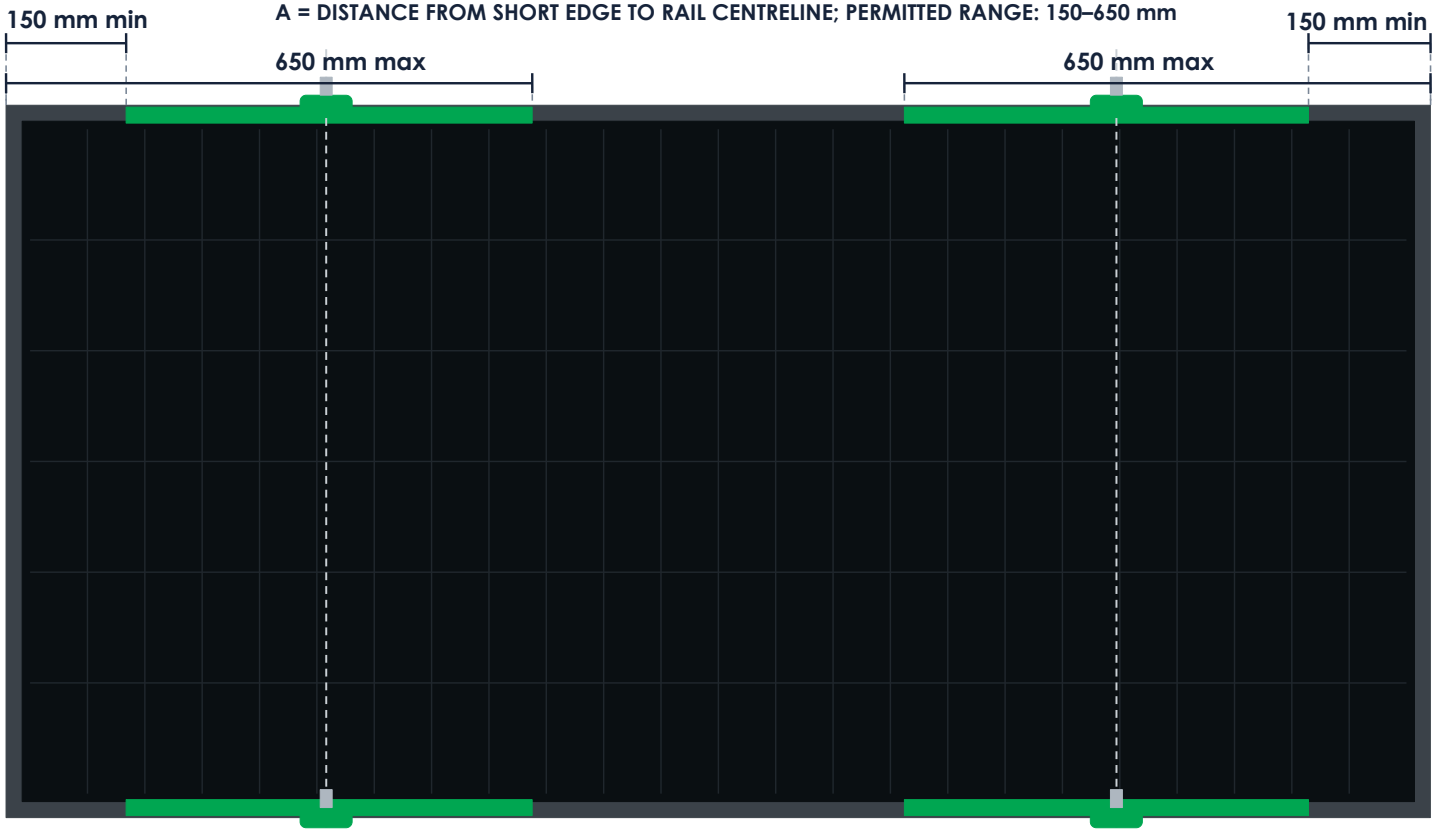
Installation Guideline

Long-frame clamping - 2-rail mounting / four clamps

APPLICABLE PRODUCTS	**TCL Solar T5 PRO (HSM-HHK-NM465~470)** **TCL Solar Half-cut TOPCon (HSM-ND48-DR430~455)** **TCL Solar C2 (HSM-BE54-HD480~485)**	**MODULE SIZE**	**1762×1134×30 mm** **1800×1096×30 mm**



RECOMMENDED STATIC LOAD RATING - BASED ON TEST

+5400 / -2400

+ = front pressure; − = uplift

INSTALLATION BASIS

A is the distance from each short edge to the rail/clamp centreline. Each rail may be positioned within 150–650 mm from the nearest short edge.

WHY THIS SUPPORT LAYOUT

Two rails and four clamps provide the tested support condition while allowing a wide installation range for the outer supports.

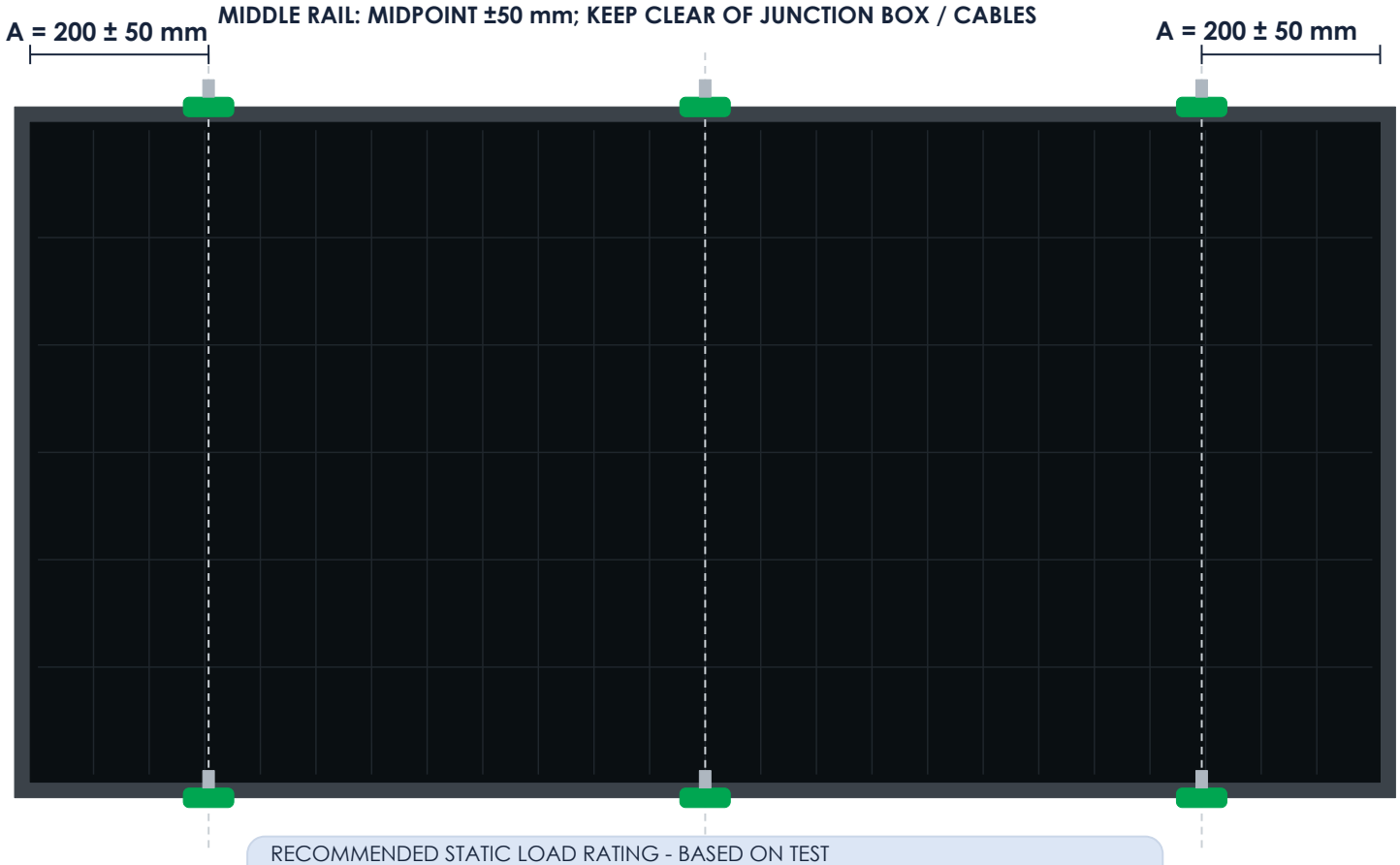
IMPORTANT - CONDITIONS AND LIMITATIONS

Ratings apply only to the illustrated support geometry and listed products. They do not replace project-specific structural verification. Use approved clamps, torque and rails in accordance with the latest installation manual and applicable codes. Any deviation requires prior approval from TCL SunPower. Warranty coverage is governed by the applicable TCL SunPower limited warranty and approved installation documents.

Installation Guideline

Long-frame clamping - 3-rail mounting / six clamps

APPLICABLE PRODUCTS	**TCL Solar T5 PRO (HSM-HHK-NM465~470)** **TCL Solar Half-cut TOPCon (HSM-ND48-DR430~455)** **TCL Solar C2 (HSM-BE54-HD480~485)**	**MODULE SIZE**	**1762×1134×30 mm** **1800×1096×30 mm**



RECOMMENDED STATIC LOAD RATING - BASED ON TEST

+7000 / -3600

+ = front pressure; − = uplift

INSTALLATION BASIS

A is the rail/clamp centreline distance from each short edge to the nearest outer rail: 200 ± 50 mm. Set the middle rail at the midpoint between the outer rails, with a ±50 mm adjustment. Do not contact the junction box or cables.

WHY THIS SUPPORT LAYOUT

The middle rail shortens the unsupported span and distributes pressure and uplift through six clamps. The adjustment range provides clearance from the junction box and cables.

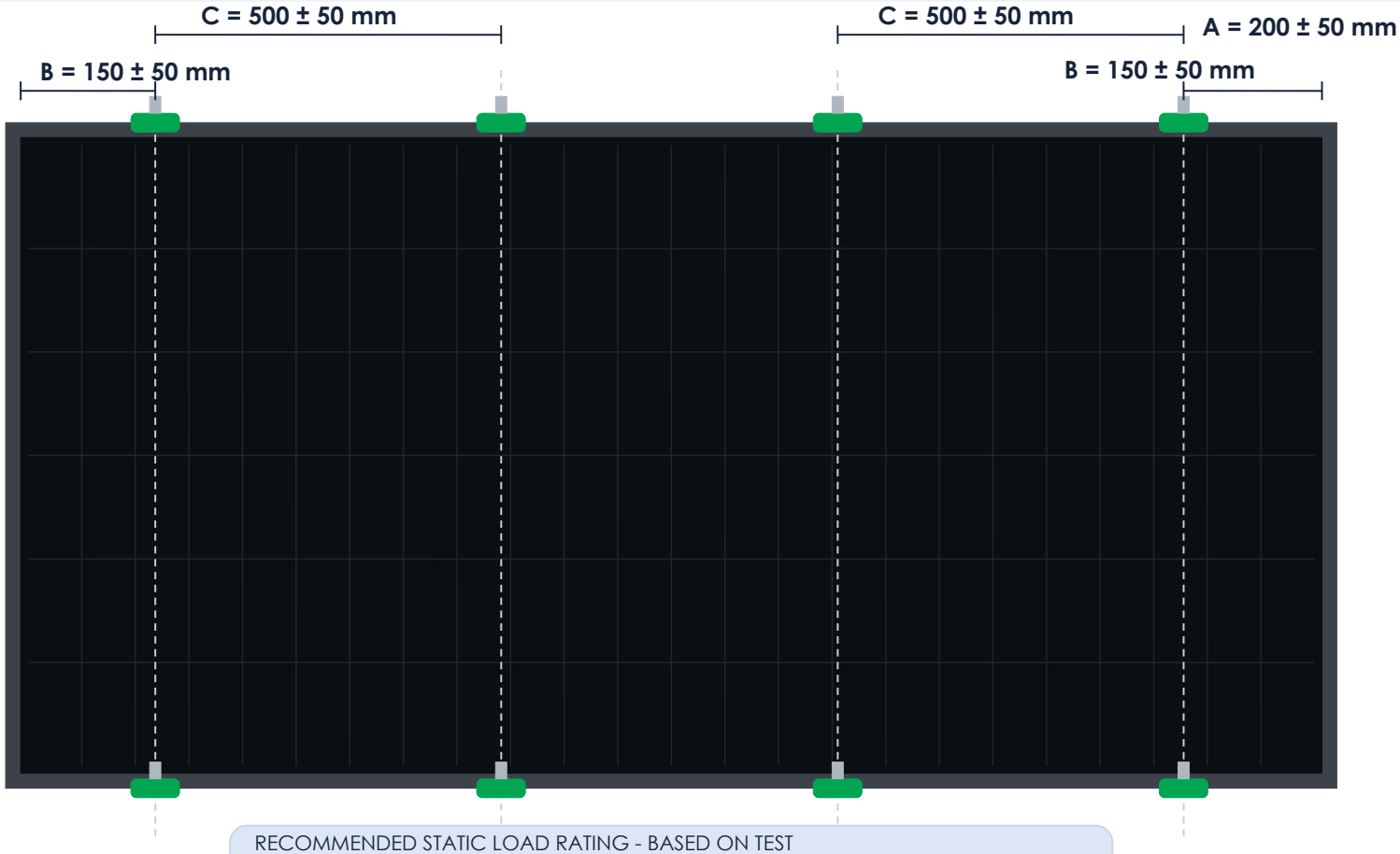
IMPORTANT - CONDITIONS AND LIMITATIONS

Ratings apply only to the illustrated support geometry and listed products. They do not replace project-specific structural verification. Use approved clamps, torque and rails in accordance with the latest installation manual and applicable codes. Any deviation requires prior approval from TCL SunPower. Warranty coverage is governed by the applicable TCL SunPower limited warranty and approved installation documents.

Installation Guideline

Long-frame clamping - 3-rail mounting / six clamps

APPLICABLE PRODUCTS	**TCL Solar T5 PRO (HSM-HHK-NM465~470)** **TCL Solar Half-cut TOPCon (HSM-ND48-DR430~455)** **TCL Solar C2 (HSM-BE54-HD480~485)**	**MODULE SIZE**	**1762×1134×30 mm** **1800×1096×30 mm**



RECOMMENDED STATIC LOAD RATING - BASED ON TEST

+8000 / -4200

+ = front pressure; − = uplift

INSTALLATION BASIS

B is the centreline distance from each short edge to the nearest outer rail: 150 ± 50 mm. C is the centreline distance from each outer rail to the adjacent inner rail: 500 ± 50 mm.

WHY THIS SUPPORT LAYOUT

The four rails and eight clamps distribute the applied load across four support lines and reduce unsupported spans, supporting the higher tested load rating.

IMPORTANT - CONDITIONS AND LIMITATIONS

Ratings apply only to the illustrated support geometry and listed products. They do not replace project-specific structural verification. Use approved clamps, torque and rails in accordance with the latest installation manual and applicable codes. Any deviation requires prior approval from TCL SunPower. Warranty coverage is governed by the applicable TCL SunPower limited warranty and approved installation documents.