

FixGrid East-West

(short side clamping)

FixGrid+ East-West

(long side clamping)

INSTALLATION MANUAL

NOTE ON USE OF ROOFS WITH SUBSTRATE OR GRAVELLED COVERING

For roofs with substrate or gravel covering, it must be considered that a low weight load for the system can only be achieved if sliding of the system sections is reliably prevented by an adequately slip-free connection for the substrate surface. For gravel roofs, flush embedding of the base beams in the gravel surface is enough. For overgrown roofs, slip resistance can be achieved with additional measures. For example, screws in the continuous beam can be used on the construction site to create a non-slip connection to the substrate.

MOUNTING INSTRUCTIONS FOR DOUBLE ALIGNMENT (E.G., EAST-WEST):

REQUIRED TOOL

Measuring tape, screwdriver with Bit TX drive T40 (module mounting) and socket wrench insert with SW8 socket wrench (e.g., internal connector)



FURTHER REQUIRED DOCUMENTS

General mounting instructions - Mounting and project planning Mounting instructions Module clamps Rapid16 Product Sheet FixGrid Kit



TIGHTENING TORQUES

Screw connections M8: 15 Nm Exception: Self-drilling screws have to be screwed on in a stop-oriented manner



SAFETY INFORMATION

The system is to be installed only with ballasting in accordance with static loads. You will receive these with the planning of your solar plant from the Schletter configurator

Risk of breakage! PV modules can be damaged if they are stepped on. Planning of the solar power system, installation and commissioning may only be performed by qualified personnel. Improper execution can cause damage to the system and endanger people.

Danger due to electric current! Installation and maintenance of the PV modules may only be performed by qualified personnel. Observe the safety regulations of the PV module manufacturer!

Risk of falling! There is a risk of falling when working on the roof and when climbing up and down. Is it imperative that the accident prevention regulations are observed and that suitable fall protection devices are used.



Risk of injury! People may be injured by falling objects. Before starting the installation work, block off the danger zone and warn people in the vicinity.

MOUNTING INSTRUCTIONS



Ensure that the flat roof waterproofing is compatible with the mounting system. The roof drainage system has to be included in the planning of your solar plant.



In the case of very uneven roofs or roof waterproofing, compensatory measures may have to be taken in order to ensure a uniform introduction of the load.



Necessary distances to roof edges have to be maintained. The maximum field size depends on the type of roof. For foil roofs, it is max. 10 m; for concrete roofs, it can also be larger in individual cases.



In the case of roofs with substrate or gravel roofing, it has to be ensured that a sufficiently non-slip connection occurs.



Please check the existing pitch of the roof and whether the mounting system has to be secured against slipping.



The surface load is not permitted to exceed the residual load-bearing capacity of the building!



The partial surface pressure, which acts on the roof membrane and insulation under the base rails, is not allowed under any circumstances to exceed the maximum permissible surface pressure. Current country-specific rules and regulations have to be observed.

Roof cleaning! In order to ensure that the base rails are supported across their entire surface, impurities such as moss, leaves, dirt, stones, etc. have to be removed.



If there is a lightning protection system involved, it is important to determine the extent to which integration by a certified lightning protection company is necessary. Whether or not the lightning protection requirements change as a result of the installation also has to be determined.



Due to static reasons, the installation of a single module row is not permitted!

Prior to installation, the roof has to be checked for damage of any kind, particularly water beading or damage to the roof membrane. These should be documented with photos in order to be able to counteract any recourse claims. The system has been developed for modules with a width of 950-1050 mm (standard module dimensions according to the current status). Other module dimensions on request and separate verification. Information about module clamping pursuant to the manufacturer has to be observed.



The FixGrid18 mounting system is fixed to the roof purely with ballast (except special cases). A detailed ballast calculation can be found in the project-related planning documents. The ballasting is calculated in such a way that sliding, tilting and lifting of the rack is avoided.



Use only original Schletter components!

No modifications to the modules are required to secure them. It is the client's/installer's responsibility to ensure the clamp location is in accordance with the panel installation manual.



All other markings, information on the number of modules and additional information can be found in the project-specific documents.



Use the current mounting instructions! Accessible on our website: <u>www.schletter-group.com</u> in the FixGrid18 section.

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TECHNICAL DATA

- Conforms to UL 2703
- Certified to LTR AE-001
- Fire class resistance rating: Class A when used with type I photovoltaic modules

1. DEFINING THE BASE RAIL LENGTHS AND DISTANCES BETWEEN MODULE SUPPORTS. This applies to modules width between 950mm and 1050mm(other modules needs a special release)

The length of the base rails depends on the selected module width, maintenance aisle width and the number of module rows. The distance between "System Rail at the bottom" and "System Rail at the top" only depends upon the module inclination. The first support should be placed at least 40 mm from the front edge of the base rail. The module frames are always flush at the top with the Rapid 16 module clamps. The base rail length can be selected from the six standard lengths (2150, 2650, 3150, 4200, 6000, 6300 mm) and combined with each other. The base rails can be connected with the internal connector, Item No. 129078-000. The maximum permissible field size has to be observed!



The mounting times can be optimized by pre-assembling a series of base rails next to each other on mounting frames with the module supports.

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The permissible surface pressure of the roof has to be checked!

Sufficient drainage of rainwater has to be ensured!

Variant B

- Apply 20-mm-thick and 300-mm-long strips at a distance of 100 mm
- Load introduction on large area (for high loads and/or soft subsoil with low permissible surface pressure)
- Also suitable for transversely draining roof water

The permissible surface pressure of the roof has to be checked!

Sufficient drainage of rainwater has to be ensured!



4. ALIGNMENT OF THE BASE RAILS

- Align base rails parallel to each other; align the FixGrid system rails flush and at right angles to the base rails on the subsoil.
- Distance g = Module length + 23 mm



Torque Value for Rapid16 clamps = 15 N.M/11 FT-LBS (available in 50 or 100mm lengths)

6. APPLY THE FIRST MODULE

- Click Rapid 16 end clamps into place at the edge of the module field and position them. Also click the Rapid 16 middle clamp into place at a generous distance so that the module can be inserted between the clamps.
- Place the module on the FixZ System Rail 18 and align it with the upper edge using the preattached Rapid 16 clamps. Pay attention to the alignment of the module row.



7. INSTALL THE FIRST MODULE

- Apply the Rapid 16 end clamps (at the top and at the bottom) to the module and tighten, Screws M8 (T40).
- Place the module center clamp on the module; do not tighten.
- Connect the module cable according to the plan.

8. INSTALL FIRST MODULE

- Apply the next module.
- Tighten the middle clamps (at the bottom and at the top) between the modules with Screws M8 (T40)
- Pre-assemble the other middle clamp on the free module side.
- Connect the module cable according to the plan.
- Repeat steps up to the last module in the row.



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9. MOUNT THE LAST MODULE OF THE ROW

- Install the last module.
- Tighten the middle clamps (at the bottom and at the top) between the modules with Screws M8 (T40)
- Mount and tighten the end clamps on the free side of the module.
- Connect the module cable according to the plan.

Insert the end clamps at least 30 mm from the rail end







10. OBSTRUCT THE BALLAST

There are basically 3 ballasting options:

- Ballasting with 100-mm-wide concrete blocks on the base rails (see Detail A)
- Ballasting with additional trough (see Detail B)
- Ballasting with additional ballast shafts (see Detail C)
- Ballasting from the combination of the 3 possibilities



The information about ballasting can be obtained with the planning of your solar plant from the Schletter configurator.

Use fixing flaps to attach the parts of the surface protection mat to the additional trough. (Ballast is not included in the scope of delivery).



LAY THE BALLAST WITH ADDITIONAL BALLAST TRAYS

If the ballast trays are filled with gravel, the gravel can be prevented from leaking at the row ends by folding up the tray ends. To do so, the ends of the ballast trays have to be folded at the perforation. The first ballast tray is laid from the right with the recesses and the upstand on the base rails.





All other trays are turned 180 degrees (recesses on the left) from right to left. The tray always lies with the side of the slots at the bottom and in the base rail with a positive fit. At the last ballast tray, the end has to be unfolded again.



Further Information about our systems can be found on our website: <u>www.schletter-group.com</u> in the solar section under Downloads.

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INFORMATION ABOUT INTERNAL AND EXTERNAL GROUNDING

The internal bonding path starts at the module and continues via the earthing pin into the clamping part and continues via the screw, the assembly claw, the module suport and the turn-in connector to the basic profile.



The external bonding path must be specified by the Installer.

COMPONENTS RECOMMENDED BY SCHLETTER FOR EQUIPOTENTIAL BONDING



Installer is responsible for and shall provide an appropriate method of direct to-earth grounding according to the latest edition of the National Electrical Code, including NEC 250: Grounding and Bonding, and NEC 690: Solar Photovoltaic Systems." and "Installation shall be in accordance with CSA C22.1, Safety Standard for Electrical Installations, Canadian Electrical Code, Part 1.



2.Apply a liberal amount of conductor on front and back side of module frame at mounting hole. Although not required, Schletter strongly recommend the use of conductor compound between the mounting surfaces in order to better protect the connection in all environmental conditions and promote connection longevity.

3. For GBL-4SS, apply 35 in-lbs mounting torque to #10 mounting bolt.

4. Apply a liberal amount of conductor compound in wireway of ground lug

5.Install ground conductor in lug and torque wire screw to the following:
6 AWG: 35 in-lbs.
8 AWG: 25 in-lbs.
10 - 14 AWG: 20 in-lbs.
*Flat washer and split washer are not required

Additional Information:

a.GBL-4SS. is suitable for use with flat-surfaced anodized aluminum or galvanized steel designated G90 minimum. The acceptable mounting hole diameter is 0.196 inches ± 0.004 inches (4.98 mm ± .1 mm).

b.The acceptable framing material thickness is a minimum of 0.062 inches (1.57mm) to 0.250 inches (6.35mm), with a flat surface are of no less than 34 by 12mm (bottom of the lug).

c. Secured to grounding holes (0.196" ID) in anodized aluminum PV frame (0.062"-0.25" thickness) with torque value 35 lbs.in." or equivalent.

d.FixGrid___ mounting system is to be only in combination with listed PV-modules that include the specific rack system in their installation manual. Refer to the approved module list for the listing PV-modules which can be used in combination with the FixGrid18.

e.For sizing of an Equipment Grounding Conductor (EGC), the rating of the Overcurrent Protection Device (OCPD) in circuit ahead of the Equipment shall not exceed the values in NEC table 250.122 where the EGC is only required to be larger than the circuit conductors supplying the equipment.

f.For use with a Grounding Electrode Conductor (GEC), the size of the conductor shall comply with NEC articles 250.66 for AC systems and 250.166 for DC systems.

g.Rated maximum system overcurrent protection (Cu conductor):

12 AWG:	20A
10 AWG:	30A

This racking system may be used to ground and/or mount a PV module complying with UL 1703 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included instructions.

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ILSCO GROUNDING PATH INSTALLATION INSTRUCTION



GBL-4SS, Ground Lug Installation Instructions for Photo Voltaic Applications



GBL-4SS

1.Install GBL-4SS ground lug per diagram, use #10-32 mounting hardware.

2.Apply a liberal amount of conductor on front and back side of module frame at mounting hole. Although not required, Schletter strongly recommend the use of conductor compound between the mounting surfaces in order to better protect the connection in all environmental conditions and promote connection longevity.

3. For GBL-4SS, apply 35 in-lbs mounting torque to #10 mounting bolt.

4. Apply a liberal amount of conductor compound in wireway of ground lug

5.Install ground conductor in lug and torque wire screw to the following:
6 AWG: 35 in-lbs.
8 AWG: 25 in-lbs.
10 - 14 AWG: 20 in-lbs.
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Additional Information:

a.GBL-4SS. is suitable for use with flat-surfaced anodized aluminum or galvanized steel designated G90 minimum. The acceptable mounting hole diameter is 0.196 inches ± 0.004 inches (4.98mm ± .1mm).

b.The acceptable framing material thickness is a minimum of 0.062 inches (1.57mm) to 0.250 inches (6.35mm), with a flat surface are of no less than 34 by 12mm (bottom of the lug).

c.FixGrid mounting system is to be only in combination with listed PV-modules that include the specific rack system in their installation manual. Refer to the approved module list for the listing PV-modules which can be used in combination with the FixGrid.

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d.For sizing of an Equipment Grounding Conductor (EGC), the rating of the Overcurrent Protection Device (OCPD) in circuit ahead of the Equipment shall not exceed the values in NEC table 250.122 where the EGC is only required to be larger than the circuit conductors supplying the equipment.

e.For use with a Grounding Electrode Conductor (GEC), the size of the conductor shall comply with NEC articles 250.66 for AC systems and 250.166 for DC systems.

f. Rated maximum system overcurrent protection (Cu conductor):

12 AWG: 20A **10 AWG:** 30A

g. This racking system may be used to ground and/or mount a PV module complying with UL 1703 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included instructions.



Overcurrent Protection Device (grounding)

- Accommodated stranded or solid copper wire (2 gauge to 14 gauge).
- Must use bare copper wire to connect to the grounding wire, remove at least two inches of insulation to expose copper wire.
- Connects to the bottom 10 rail channel of module rail.





Grounding log (Part # 135003- 003)



Grounding wire must extend through grounding lug by at least 1/4 inch

Loosen or remove top portion of groundinglog and insert grounding wire into appropriate groove.

Gauge of Grounding Wire conductor





Fire Test

FixGrid racking system meet with Standard UL 2703, Clauses 11.1 that required a rack mounting system intended for stand-off, rack, or direct mounting in combination with a specified roof, or intended for integral mounting in combination with the specified PV module(s) comply with the fire resistance requirements for a "Class A" PV System Rating in accordance with the Standard for Flat-Plate Photovoltaic Modules and Panels, UL 1703.

- Fire Test Class A Type 1
- Fire class resistance rating: Class A when used with Type I photovoltaic modules only

Fire Test configuration



GENERAL NOTES ON MAINTENANCE

Yearly inspection of the system should be conducted to maintain optimal performance by qualified personnel.

Visual inspection for

- signs of damage
- signs of wear of components
- signs of components
- position of the ballast
- position of roof protection mats

Replace any affected components immediatly: torque at module clamps must be verified with a Torque wrench and should be set at 50% of intended tightening torque.

Do not touch the live part of the wire, cable and connector directly but with safery equipment (insulating tools) when necessary.

WARNING! Contact your installer immediatly if you suspect your system is not working properly.

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WARNING! The PV System must be shut down first if it needs any electrical maintenance. Improper maintenance may cause lethal electric shocks/ or burns.

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INFORMATION ON TENSILE OR SHEAR STRENGTH

Rapid 16 module clamps (according Z-14.4 - 631) (available in 50 or 100mm lengths) TENSILE

	Profile	F _T [kN]
Middle Clamps	FixZ	3,88
End Clamps	FixZ	1,63

SHEAR

Load direction:



RAPID 16	shear strength [kN/ clamp]	
	Fs	
Middle Clamp	0,67	
End Clamp	0,68	

FIXZ-PROFILES INCL. TURN-IN CONNECTOR	
Maximum permissible pressure values	5400 kPa
Maximum permissible tensile values	2400 kPa



APPROVED MODULE LIST

MODEL	NUMBER

MANUFACTURER	MODEL NUMBERS	
Boviet Solar	BVM6612	
Canadian Solar	CS6X-P-FG CS6X-P CS6V-M CS6U-P CS6U-M CS6U CS6P-PSD CS6P-P CS6P-P CS6K-PG CS6K-FG CS6K-M CS6K-MAB CS6K-M CS6K-M CS6K CS5A-M CS5K-M CS3W-PB-AG CS3W-PB-AG CS3W-P CS3W-MS CS3W-MS CS3W-MS CS3U-MB-AG CS3U CS3U-PB-AG CS3U-P CS3U-MS CS3U-P CS3U-MS CS3U-P CS3U-MS CS3U-P CS3L-P CS3L-P CS3L-P CS3L-P CS3L-P CS3L-MS CS3L-P CS3L-MS CS3L-P CS3L-MS CS3L-P CS3L-MS CS3L-P CS3L-MS CS3L-P CS3L-MS CS3L-P CS3L-MS CS3L-P CS3K-P CS3K-P CS3K-P CS3K-P CS3K-P CS3K-P CS3K-MS CS3K-P CS3K-MS CS3K-P CS3K-MS CS3K-P CS3K-MS CS3K-MS CS3K-P CS3K-MS CS3K-	
ET Solar	ET-M660 290 285 280 275 270 WW WB ET-M672 340 335 330 325 320 BB ET-M672 345 340 335 330 325 WW WB ET-P660 265 260 255 250 BB ET-P660 270 265 260 255 WW WB ET-P672 315 310 305 300 BB ET-P672 320 315 310 305 WW WB	
Hanwha Q Cells	L-G2 L-G3 L-G4 Q.PEAK DUO BLK-G5 Q.Peak DUO BLK-G6 Q.Peak DUO G6 Q.Peak DUO LG6 Q.PEAK DUO-G5.X Q.PEAK DUO-G5 B.LINE PRO L G4.1 B.LINE PRO L G4.2 B.LINE PRO L G4.2 B.LINE PRO BFR G4.1 B.LINE PRO BFR G4.1	

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Hanwha Q Cells (continued) Q.PEAK BLK G4.1/TAA Q.PEAK L G4.2 / 4.5 Q.PEAK-G4.1|G4.1/MAX Q.PLUS BFR G4.1/ TAA or MAX **O.PLUS G4** Q.PLUS L G4.1 | G4.2 Q.PRO BFR G4|G4.1|G4.3|G4.4 Q.PRO G4 Q.PRO L G4.1 **O.PRO L G4.2** Q.PRO L G4.5 Q.PEAK DUO BLK-G5/SC Q.PEAK DUO BLK-G6+ Q.PEAK DUO BLK-G6+ /TS Q.PEAK DUO BLK-G6+/AC Q.PEAK DUO BLK-G6+/SC Q.PEAK DUO BLK-G7 Q.PEAK DUO BLK-G8 Q.PEAK DUO BLK-G8+ Q.PEAK DUO G6+/AC Q.PEAK DUO L-G5 Q.PEAK DUO L-G5.1 Q.PEAK DUO L-G5.2 Q.PEAK DUO L-G5.3 Q.PEAK DUO L-G6 Q.PEAK DUO L-G6.1 Q.PEAK DUO L-G6.2 Q.PEAK DUO L-G6.3 Q.PEAK DUO L-G6.4 Q.PEAK DUO L-G6.5 Q.PEAK DUO L-G6.6 Q.PEAK DUO L-G6.7 Q.PEAK DUO L-G7 Q.PEAK DUO L-G7.1 Q.PEAK DUO L-G7.2 Q.PEAK DUO L-G7.3 Q.PEAK DUO L-G7.4 Q.PEAK DUO L-G7.5 Q.PEAK DUO L-G7.6 Q.PEAK DUO L-G7.7 Q.PEAK DUO L-G8 Q.PEAK DUO L-G8.1 Q.PEAK DUO L-G8.2 Q.PEAK DUO L-G8.3 Q.PEAK DUO L-G8.3/BFF Q.PEAK DUO L-G8.3/BFG Q.PEAK DUO ML BLK-G9 Q.PEAK DUO ML BLK-G9+ Q.PEAK DUO ML-G9 O.PEAK DUO MI-G9+ Q.PEAK DUO XL-G9 Q.PEAK DUO XL-G9.1 Q.PEAK DUO XL-G9.2 Q.PEAK DUO XL-G9.3 **Q.PEAK DUO-G5** Q.PEAK DUO-G5/SC Q.PEAK DUO-G6 Q.PEAK DUO-G6/SC Q.PEAK DUO-G6+ Q.PEAK DUO-G6+/SC Q.PEAK DUO-G7 Q.PEAK DUO-G8 Q.PEAK DUO-G8+ Q.PLUS DUO L-G5 Q.PLUS DUO L-G5.1 Q.PLUS DUO L-G5.2 Q.PLUS DUO L-G5.3 B10B68:B138



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Longi	LR6-60PE 300-320M LR6-60HPH xxx M LR6-72BP 355-375M LR6-72HPH xxx M LR6-72PH xxx M LR4-72HBD 415-435M LR4-72HBH 420-440M LR4-72HBH 420-440M LR4-60HBD xxx M LR4-60HBD xxx M LR4-60HPJ/HIH xxx M LR4-60HPB/HIB xxx M
Philadelphia Solar	PS-M60 PS-M60(BF) PS-M72 PS-M72(BF) PS-P60 PS-P72
Phono Solar	PS xxx P-20/U PS xxx PH-20/U PS xxx M-20/UH PS xxx MH-20/UH
REC Solar	PEAK Energy Series REC245 250 255 260 265 270PE PEAK Energy BLK2 Series REC245 250 255 260PE BLK2 TWINPEAK SERIES REC265 270 275 280 285TP PEAK Energy 72 Series REC300 295 - 315PE TWINPEAK REC330 335 340TP72 TWINPEAK 2 BLK2 SERIES RECxxxTP2 BLK2 TWINPEAK 2 SERIES TWINPEAK 2 SERIES RECxxXTP2S 72 REC Alpha - RECxxXAA REC Alpha 72 - RECxxXAA 72 REC Alpha Black - RECxxXIP2 REC Alpha Black - RECxxXIP REC N-Peak-RECxxXIP REC N-Peak-RECXXIP Black REC N-Peak-RECXXXTP3M Twin Peak 3M - RECXXXTP3M Black
Risen	RSM60-6-270M-290M/5BB
Solaria	PowerXT-400R-PM PowerXT-400R-PM-AC
SolarWorld	Sunmodule Plus SW 275-290 MONO BLACK Sunmodule Plus SW 280-290 MONO BLACK (5-busbar) Sunmodule Plus SW 280-295 MONO Sunmodule Plus SW 285-300 MONO (5-busbar) Sunmodule Pro-Series SW 260 POLY WOB Sunmodule Protect SW 275-280 MONO BLACK Sunmodule SW 100 POLY RGP Sunmodule SW 100 POLY RGP Sunmodule SW 150 MONO R6A Sunmodule SW 150 POLY R6A Sunmodule SW 320-325 340-350 XL MONO Sunmodule SW 80 MONO RHA
SUNPOWER	SPR-X21-xxx-COM
Suntech	STPxxxS – A60U/Wfhb STPxxxS - A72U/Vfh STPxxxS - A72U/Vnh STPxxxS-24/Vfw

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Talesun

Trina

FEATHER 2.0 TP660P Hipro M295+ TP660M Hipro M350+ TP672M PID ZERO TP672M TD660M TD660P TP660|672M TP660|672P



WattPower

Yingli Green Energy

Glacier Series G3 WP-xxxM/G3-60H-V (325|330|335|340PC)

YL260P|255P|250P|245P|240P-29b YL275P|270P|265P|260P|255P|250P-29b YL290D|285D|280D|275D|270D-30b YL300C|295C|290C|285C|280C|275C-30b YL325P|320P|315P|310P|305P|300P-35b YL340D|335D|330D|325D|320D|315D-36b

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ZNShine

ZXM6-60-xxx M ZXM6-H120-xxx_M ZXM6-H144-xxx_M ZXM6-HLD120-xxx_M ZXM6-HLD144-xxx_M ZXM6-HLDD144-xxx M ZXM6-LD60-xxx_M ZXM6-LD72-xxx M ZXM6-LDD72-xxx_M ZXM6-NH120-xxx_M ZXM6-NH144-xxx_M ZXM6-NHLD120-xxx M ZXM6-NHLD144-xxx M ZXM6-NHLDD120-xxx M ZXM6-NHLDD144-xxx M ZXP6-72-xxx_P ZXP6-H144-xxx_P ZXP6-HLD120-xxx_P ZXP6-HLD144-xxx P ZXP6-LD72-xxx P



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