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Hopergy installation guide

1. XIAMEN HOPERGY PHOTOVOLTAIC CO TECHNOLOGY. LTD. Block 1001, 2366 Fangzhong Road, Xiamen 361015, China Phone: 86 592 5689685 FAX: No86 592 5638096 Email: info@hopergy.com Product Catalog - 2015 HopergyProductcatalogueVER:HOP-EN-2015012. SectionTitle19Missions2 Installation Solution...... - Our products can be extended indefinitely, minimizing losses, cost and increasing overall efficiency. 3. Content 02 Mission 04 About Us 06 Tin 10 Tile 12 Tilt 14 Ballast 16 Pole 18 Earth 22 Accessories 4. Aboutus4 01 About Us Powered Innovation Opportunities since its founding, Hopergy focuses on the research, production, distribution and design of solar photovoltaic installation products. Our solar photovoltaic solutions meet the immediate needs and needs of residential, corporate, government and utility applications around the world. Hopergy understands the importance that the industry attaches to product quality, reliability, durability and overall cost-effectiveness of the installation. These factors drive the development and development of Hopergy products, as well as the company's commitment to manufacturing in accordance with its ISO 9001 accreditation. The end product reflects the company's commitment to meeting the needs of the industry. 5. 02 Worldwide Hopergy International presence is growing rapidly by setting up branches and offices around the world to make our prducts and services more accessible to local customers. Hopergy also collaborates with selected number of competent distributors and system integrators around the world to explore and support the solar industry and, most importantly, to contribute to making this world a cleaner and safer place for future generations. 6. Tin6 Technical Standard: AS/N'S1170, Eurocode 8, DIN 1055, IBC 2006 Material: High-end anodized aluminium 6005-T5 and SUS304 Snow load: 1.4 KN/m Max Wind Speed: 55 m/s 03 Tin Hoperg's Tin (Roof) It provides a simple and cost-effective solution for assembling all framed and uncollected solar panels currently on the market. The wide range of Hopergy brackets provides quick and safe fixation of sheet metal, purlins or rafters, as well as for different types of roof at an angle of 10 to 60 degrees. To make it easier to connect support rails to brackets, Hopergy rails are designed to fix nuts just to turn into rails. 7. Hop-TRB-01 HOP-TRB-02 HOP-TRB-03 HOP-TRB-04 HOP-TRB-05 HOP-TRB-06 8. The various versions available at Kliplok Interface Hopergy's HOP-LOK are the installation solution for Lysaght Klip-Lok and Stramit Speed Deck Ultra roofs, providing a sturdy mount that doesn't penetrate Roof. The high-strength rubber

pillow EPDM in the clamp prevents corrosion on the roof interface. The solution is compatible with HOP Tilt-Leg Tilt-Leg Allows you to lean quickly and easily from 10 to 60 degrees. HOP-KLK' Another tin interface For easy installation, Hopergy has developed innovative solutions that provide strong and stable installation for the following own roof tin profiles. These systems can be used with or without rails. Tin8 9. Lysaght Custom Orb Interface Hopergy's HOP-COB is a roof installation solution for Lysaght Custom Orb. The system can be used with or without rails. The panels are fixed directly on the mounting brackets, fixed in purlins or rafters. The solution is compatible with the HOP Tilt-Leg system, which allows you to tilt from 10 to 60 degrees quickly and easily. HOP-COB Lysaght Trimdek Hopergy's HOP-TRK interface is a mounting solution for Lysaght Trimdek roofs. The system does not use rails. The panels are fixed directly on the mounting brackets, fixed in purlins or rafters. The solution is compatible with the HOP Tilt-Leg system, which allows you to tilt from 10 to 60 degrees quickly and easily. HOP-TRK 10. Tile10 Technical Features Standard: AS/N'S1170, Euro Code 8, DIN 1055, IBC 2006 Material: High Class Anodized Aluminum 6005-T5 and SUS304 Snow Load: 1.4 KN/m Max Wind Speed: 55 m/with 04 Tiles Hopergy's Universal Tiled Roof Fit for almost any flat roof. It accommodates all framed and uncollected solar panels currently on the market. The full range of Hopergy assembly brackets provides quick and simple fixation of purlins or rafters without affecting the integrity or function of the tiles themselves. Roof braces are available for traditional profile tiles and flat tiles. To make it easier to connect support rails to brackets, Hopergy rails are designed to fix nuts just to turn into rails. 11. Tile Interface bracket ClayTileInterface HOP-TRH-01 HOP-TRH-02 HOP-TRH-03 HOP-TRH-04 HOP-TRH-05 HOP-TRH-06 HOP-TRH-07 HOP-TRH-08 HOP-TRH-09 HOP-TRH-10Intere. Standard Technical Features Tilt12: AS/N'S1170, EuroCoard 8, DIN 1055, IBC 2006 Material: High Class Anodized Aluminium 6005-T5 and SUS304 Snow Load: 1.4 KN/m Maximum Wind Speed: 55 m/s 05 Tilt Hoperg's Tilt Systems Fast and Easy to Set, that allows solar panels to be installed in angular ranges of 10 to 15 degrees, 15 to 30 degrees and 30 to 60 degrees. To simplify the installation, the components are pre-assembled before delivery to the site. Available tilt angles 10-15, 15-30 and 30-60 degrees Celsius are easy to add up, save storage and transportation - simple and fast installation - easy access to components and connections 1 2 13. Front Leg Hopergy's adjustable TILT-LEG system is truly innovative. Adjusting the length of the front and back legs makes the system extremely versatile. Adjustable TILT-LEG hopergy safely install solar panels and adjust quickly within angular ranges of 10 to 15 degrees, 15 to 30 degrees and 30 to 1 degrees from the mounting surface. HOP-AFL1 HOP-ARL-2 A-Frame Kit Hopergy's A-FRAME KIT is the ideal solution when structural stability is crucial in the harshest conditions, whether on flat roofs or on the ground. The system is extremely sturdy and durable, but fast and easy to install. This allows solar panels to be safely installed and quickly adjusted within angular ranges of 10 to 15 degrees, 15 to 30 degrees and 30 to 60 degrees. HOP-AFK-3 different versions available different versions are available 3 14. Ballast14 Technical Features Standard: AS/N'S1170, Euro Code 8, DIN 1055, IBC 2006 Material: High Class Anodized Aluminium 6005-T5 and SUS304 Snow Load: 1.4 KN/m Max Wind Speed: 55 m/s 06 Ballast Hopergy's Ballast Solution Mount suitable for any near-flat roof. With two options for optimizing the substructure load, one that includes legs that can be adjusted to align the load with the structural elements of the roof and the second that distributes the load along the length of the long beam. System disrepair and associated rail design can withstand conditions in the highest wind, snow and seismic areas and its aluminium and stainless steel components can sustain even the most corrosive environments. 1 2 3 4 5 6 7 8 9 10 15. Ballast 2. HOP-RSR 3. HOP-ICS 4. HOP-RDC1. HOP-RTK 6. HOP-RL 7. HOP-ECS 8. HOP-RSK5. HOP-RFL 10. HOP-RWD9. HOP-RBB Product Description Material 1 HOP-RTC RS Three-dimensional connector SUS304 2 HOP-RSR RS Rail AL6005-T5 3 HOP-ICS Standard Internal Clamp AL6005-T5 4 HOP-RDC RS Two-handed SUS304 5 HOP-RFL RS Front Leg AL6005-T5 HIOP-RRL RS Rear Foot AL6005-T5 7 HOP-ECS Standard end clip AL6005-T5 8 HOP-RSK RS Rail joiner AL6005-T5 9 HOP-RBB RS Ballast board AL6005-T5 10 HOP-RWD RS Wind deflector AL6005-T5 16. Pole16 Specifications Standard: AS/N'S1170, Euro Code 8, DIN 1055, IBC 2006 Material: High-end anodized aluminium 6005-T5 and SUS304 Hot-dipvanized Steel No235 Snow load: 1.4 KN/m Max Wind Speed: 55 m/s 07 Hope Polergy's Pole Mount System is the ideal solution when maximum installation flexibility is required. Any number of poles can be installed to grow the system. Poles can be turned to optimal orientation, and an array of panels at each pole can be drawn to any of the five corners: 10, 20, 30, 40 or 50 degrees to maximize power generation. 1 23 4 5 6 7 17. Pole 2. HOP-ECS 3. HOP-FSA 4. HOP-PBC1. HOP-ICS 6. HOP-PSG 7. HOP-PSB5. HOP-PMB Product Description Material 1 HOP-ICS Standard Internal Clip AL6005-T5 2 HOP-ECS Standard End Clip AL6005-T5 3 HOP-SSA Standard Al Rail Choice AL6005-T5 4 HOP-PBC PM B Clip No 235 5 HOP-PMB PM Basic Beam No.235 6 HOP-PSP PM Support Ray No 235 7 HOP-PSB PM Beam No235 18. Ground18 Technical Performance Standard: AS/N'S1170, Eurocode 8, DIN 1055, IBC 2006 Material: High-class anodized aluminium 6005-T5 and SUS304 Snow load: 1.4/KN m Maximum wind speed: 55 m/s 08 Earth Land The Ground Mount System is designed for medium- and large-scale design installations. The most appropriate ground installation for any open site depends on the size of the project, engineering considerations, surface material installation, soil conditions and ground relief, so Hopergy offers a wide range of ground-based installation systems to provide a solution for each application, location and environment. Each system is designed for easy installation, durability, profitability and flexibility in design and installation. 19. Type N 1 2 3 4 5 2. HOP-ECS 3. HOP-GRK 4. HOP-ICS1. HOP-GCR 5. HOP-GPB-N Product Description Material 1 HOP-GCR GM Rail AL6005-T5 2 HOP-ECS Standard End clamp AL6005-T5 3 HOP-GRC GM Rail for AL6005-T5 4 HOP-ICS Standard Internal Clamp AL6005-T5 5 HOP-GPB-N GM Folding Legs Type N AL6005-T5 20. Ground20 Type W 1 2 3 4 5 2. HOP-ECS 3. HOP-GRK 4. HOP-ICS1. HOP-GCR 5. HOP-GPB-W Product Description Material 1 HOP-GCR GM Rail AL6005-T5 2 HOP-ECS Standard End clamp AL6005-T5 3 HOP-GRC GM Rail Rail AL6005-T5 4 HOP-ICS Standard Internal Clamp AL6005-T5 5 HOP-GPB-W GM Folding Feet Type W AL6005-T5 21. Carport 1 2 3 4 5 2. HOP-KRK 3. HOP-ECS 4. HOP-ICS1. HOP-CSR 5. HOP-CPB-W Product Description Material 1 HOP-CSR CS Rail AL6005-T5 2 HOP-CRC GM Rail Clamp AL6005-T5 3 HOP-ECS Standard End Clamp AL6005-T5 4 HOP-ICS Standard Internal Clamp AL6005-T5 5 HOP-CP-CPB-W CP Foldable LegsAble Set W AL6005-T5 22. Accessories22 09 ACCESSORIES Rail Hopergy is unique in design and internationally patented. Manufacturing processes are certified in accordance with ISO 9001. The products themselves undergo strict quality control and compliance with local rules and standards. As a result, Hopergy rails have earned a reputation for production quality, durability, performance, lifespan, economy and ease of assembly and installation. Product Description 1 HOP-SSR' Select rail AL6005-T5 2 HOP-LXR LEX AL6005-T5 1 2 23. Hop-SNK1 HOP-SLN2 SSK3 HOP-SRC4 Product Description Material 1 HOP-SNK Select Fixing Bolt and Nut AL6005-T5 2 HOP-SLN Select Fixing Nut AL6005-T5 3 HOP-SSK Select rail joiner AL6005-T5 4 HOP-SRC Select rail clip AL6005-T5 5 HOP-LXS LEX Rail joiner AL6005-T5 HOP-LXS5 24. Accessories24 HOP-TEC5 HOP-TIC6 HOP-ECS1 HOP-ICS2 HOP-AEC3 HOP-AIC43 4 MODULE CLAMP Hopergy's modular clamps are pre-assembled and can be easily installed with every hope of the rail. For the installation of modules with a modular frame depth of 30 to 50 mm. All inserts of nuts are self-locked and can be moved by applying light pressure on the stainless steel screw in the railway. On demand are available in black (anodized) 25. HOP-UEC7 HOP-UIC8 HOP-LEC3 HOP-LIC49 10 Description Материал 1 HOP-ECS Стандартный конец зажим AL6005-T5 2 HOP-ICK Стандартный внутренний зажим AL6005-T5 3 HOP-AEC регулируемый конец зажима AL6005-T5 4 HOP-AIC Internal clip AL6005-T5 5 HOP-TEC Thin film End clip AL6005-T5 6 HIOP-TIC Thin film Internal clip AL6005-T5 7 HOP-UEC Universal end clip AL 8 HOP-UIC Universal Internal Clip AL6005-T5 9 HOP-LEC-LEX End Clamp AL6005-T5 10 HOP-LIC LEX Internal clamp AL6005-T5 26. Accessories26 GROUND SCREW Product D (mm) d (mm) H (mm) HOP-GSF-F-76x1200 200 76 1200 HOP-GSF-F-76x1400 200 76 1400 HOP-GSF-F-F-76x160 200 0 200 76 1600 HOP-GSF-F-76x1800 200 76 1800 HOP-GSF-F-F-76x2000 200 76 2000 Hopergy's Ground Screw provides maximum stability, efficiency and sustainability for many applications, such as photovoltaic construction of a solar farm. Compared to concrete supports, which can take hours to install, Powerscrew can be installed within minutes and built on immediately. Material: Hot Galvanized Steel No. 235 D H D D H Product D (mm) H (mm) HOP-GSF-76x1200 76 1200 HOP-GSF-76x1400 76 1400 HOP-GSF-76x1600 76 1600 HOP-GSF-76x1800 76 1800 HOP-GSF-76x2000 76 2000 27. OTHER HOP-ELG1 HOP-EPL2 HOP-LXE3 HOP-PCC43 4 HOP-LXC5 Material 1 HOP-ELG Earthing Lug AL6005-T5 2 HOP-EPL Standard Al60 Earth Plate05-T5 3 HOP-LXE LEX Cable clip AL6005-T5 4 HOP-PCC panel cable clip AL6005-T5 5 HOP-LXC LEX Cable cover AL6005-T5 28. DividedTite19 NOTE 29. NOTE 30.