



Solar Solutions



**Residential
& Commercial**

**Dealer & Installer
2023 Catalogue**

We're committed to Aotearoa – the land, the people, and our future.



One of the biggest advantages of switching to solar is that it dramatically reduces your impact on the environment. Solar systems generate energy without the aid of fossil fuels, instead harnessing the natural energy provided by the sun. Converting to solar will immediately lower your carbon footprint, cut your power bill, and help your business or home enjoy a more sustainable lifestyle.

We're committed to the future of Aotearoa, and we know solar is essential to this country's path towards sustainability. Our goal is to make converting to solar easy for Kiwis, no matter where they live in NZ. Install a Rheem Solar Solution and join the smart energy revolution.

Rheem is a member of the Sustainable Energy Association of New Zealand, SEANZ.



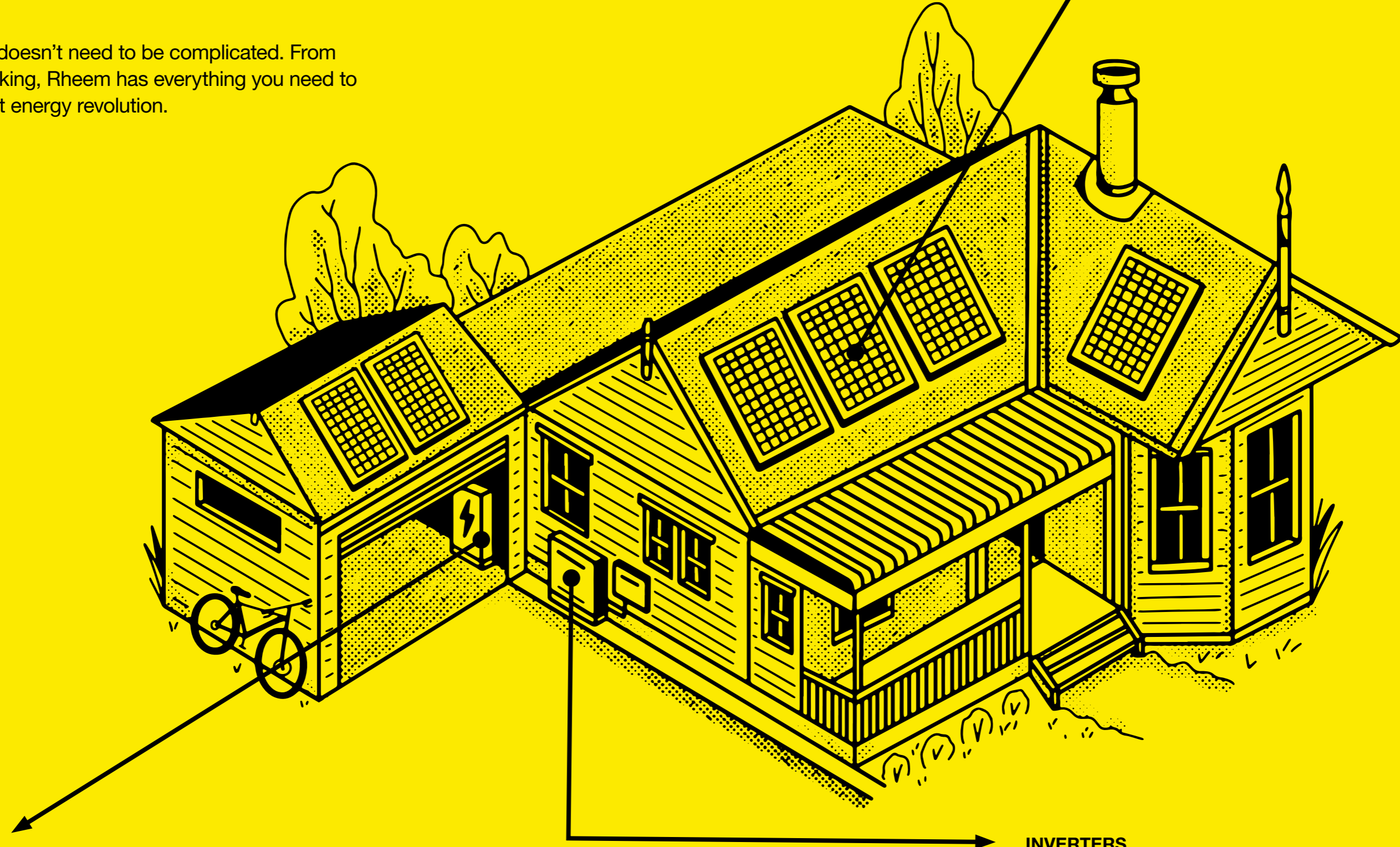
Solar Solutions

The solar revolution has started and Rheem are leading the charge with thoughtful, high-quality solutions. Every Rheem Solar Power system uses world-leading inverters and high-efficiency solar panels that are consistent with our quality and performance requirements. Our product range is built to withstand New Zealand's ever-changing weather conditions, and before a component is introduced to our range, it must meet strict quality standards.

RHEEM

Rheem Solar Solutions

Solar power doesn't need to be complicated. From panels to racking, Rheem has everything you need to join the smart energy revolution.



SOLAR PANELS

It all starts with the panels. These are made up of photovoltaic (PV) cells, which collect light from the sun and convert it into DC current.

BATTERIES

You're going to need a way to store the power produced by the solar panels, and that's where batteries come in. They charge during the day using electricity generated from solar panels, and the stored electricity can then be used to power your home in the evening when the sun goes down.

INVERTERS

To make this power produced by the solar panels usable, an inverter is required. In short, an inverter is an electronic device that converts the DC power generated by the solar panels into AC power at the correct voltage for the grid.

Rheem Solar Solutions

We have a solar solution for every household, business and commercial property. Thanks to our strong network of partners worldwide, we have an extensive range of solar products currently available in NZ. Along with the significant stock we hold in our Auckland and Christchurch warehouses, we also have access to product from both the manufacturer's stock in Australia and the Rheem Australia warehouse stock, which means better lead times on indent product for our customers. Our sales team also operate around the country, so you can be sure that support is never far away.

Alongside our sales support, we provide design tools and assistance via the Rheem Solar Team. We work in partnership with our customers, and our experienced, responsive technical sales team are always keen to assist with solving project challenges. They can help you design systems, prepare system schematics/specifications and provide basic wiring schematics, and will even offer quoted solutions based on a client's power needs and building.

We only partner with quality manufacturers, and all our brands are proven names you can trust. And with quick access to a wide range of local and international products, our industry-leading solar solutions come at a competitive price.



Our services also adhere to the New Zealand standards for system design and implementation, including:

- AS/NZ 3000 Wiring Rules
- AS 3008 Selection of Cables
- AS/NZS 4777 Grid Connection of energy systems by inverters
- AS/NZS 5033 Installation of PV Arrays
- AS 4509 Stand-alone power systems*
- AS 3595 Energy management programs
- AS 1768 Lightning Protection

* note some aspects of these standards are relevant to grid connect systems

Solar Panels

Collecting the sun's energy is no easy feat, and it shouldn't come as a surprise that not all solar power panels are equally effective. We only select panels that are proven to be resistant to Potential Induced Degradation (PID) and Light Induced Degradation (LID), with state-of-the-art cell technology for excellent performance under real conditions and anodised frames built to withstand extreme weather conditions. Before we include them in our range, our panels are tested for optimum performance and efficiency using solar panel flash test data and Electroluminescence (EL) imaging.

We have a range of solar panels to suit your needs, including the all-black Solahart Silhouette panel. The Silhouette provides the ideal solution for residential homes thanks to its innovative and premium cell technology. Designed in Germany and built to withstand Australian and New Zealand weather conditions, these panels have an incredibly low rate of panel degradation. In fact, their output is guaranteed to be at least 86% of the nominal power for up to 25 years, which means you're sure to enjoy energy free from the sun, for years to come.



The new high-performance Solahart SunCell panel is another reliable option which offers great value for money. With innovative half-cell technology and excellent power efficiency that results in more energy production per square metre, the Solahart SunCell ticks all the boxes on durability. It has passed endurance testing for up to three times more cycles than the international standard, which makes it an ideal solution for Australian and New Zealand weather conditions. Manufactured to specification, these panels come with a 15-year product warranty for ultimate confidence and peace of mind.

Our panel ranges are the smart choice for quality, reliability and durability for both residential and commercial applications.

Panels – Solahart



Mechanical Data

Brand	Solahart Silhouette	Solahart SunCell	Solahart SunCell	Astro Bifacial 545
Model	QCell Q.PEAK DUO BLK ML-G10+ 400W	Astro CHSM54M-HC 400W	Astro CHSM72M-HC 450W	Astro CHSM72M(DG)/F-BH 545W
Dimensions (H x W x D)	1879mm x 1045mm x 32mm (including frame)	1722 x 1134 x 30 mm	2094 x 1038 x 35 mm	2278 x 1134 x 35 mm
Weight	22.0 kg	21.6 kg (Tolerance +/- 1.0kg)	23.5 kg	32.6 kg
Front Cover	0.13in (3.2mm) thermally pre-stressed glass with anti-reflection technology	3.2 mm glass thickness	3.2 mm glass thickness	2.0 mm glass thickness
Back Cover	Composite film	Composite film	Composite film	Glass
Frame	Black anodized aluminium	Aluminium, silver or black anodized	Aluminium, silver anodized	Aluminium, silver anodized
Cell	6 x 22 monocrystalline Q.ANTUM solar half cells	108 (6*18) P type Monocrystalline	TBC	144 (6*24) P type Monocrystalline
Junction Box	53-101mm x 32-60mm x 15-18mm, IP67, with bypass diodes	IP 68	IP 68	IP 68
Cable	4mm ² Solar cable; (+) ≥1250mm, (-) ≥1250mm	4 mm ² / 12 AWG; Portrait: 300 mm; Landscape: 1200 mm	4 mm ² / 12 AWG; Portrait: 300 mm; Landscape: 1300 mm	4 mm ² / 12 AWG; Portrait: 300 mm; Landscape: 1400 mm
Connector	Stäubli MC4; IP68	HCB40 / MC4-EV02	HCB40 / MC4-EVO2	HCB40 / MC4-EVO2 (optional)

Electrical Data

Minimum performance at standard test conditions, STC¹

Power at MPP - P _{MPP}	[W]	400	400	450	545
Short circuit current - I _{SC}	[A]	11.14	13.65	11.37	13.75
Open circuit voltage - V _{OC}	[V]	45.30	37.00	49.05	50.10
Current at MPP - I _{MPP}	[A]	10.77	12.86	10.89	12.95
Voltage at MPP - V _{MPP}	[V]	37.13	31.09	41.32	42.1
Efficiency - η	[%]	≥20.4	20.5%	20.7	21.1

* Measurement tolerance +/- 3%

¹ STC: Irradiance 1000W/m², Cell Temperature 25° C, AM=1.5

Model	Solahart Silhouette	Solahart SunCell	Astro Bifacial
Product Warranty*	25 Years	15 Years	12 Years
Performance Warranty*	25 Years	25 Years	30 Years

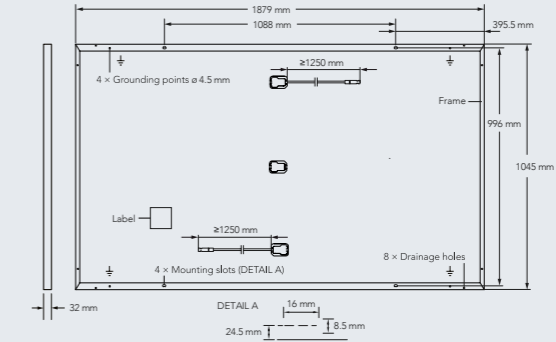
Performance Warranty Information:

At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

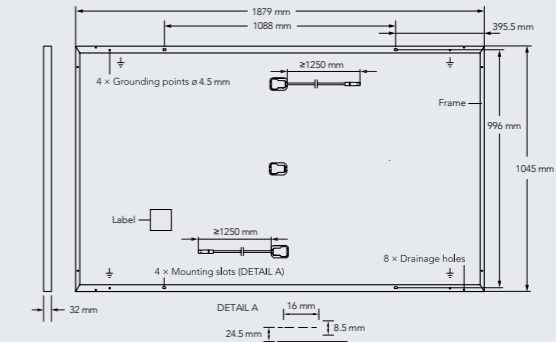
All data within measurement tolerances.

Dimensions - Measurements in mm

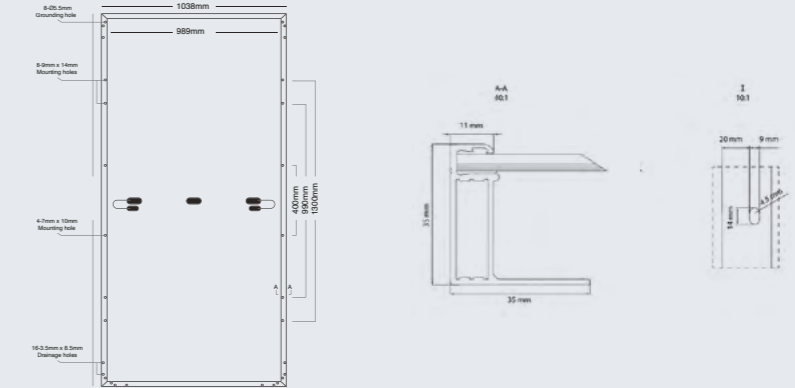
Solahart Silhouette 400W



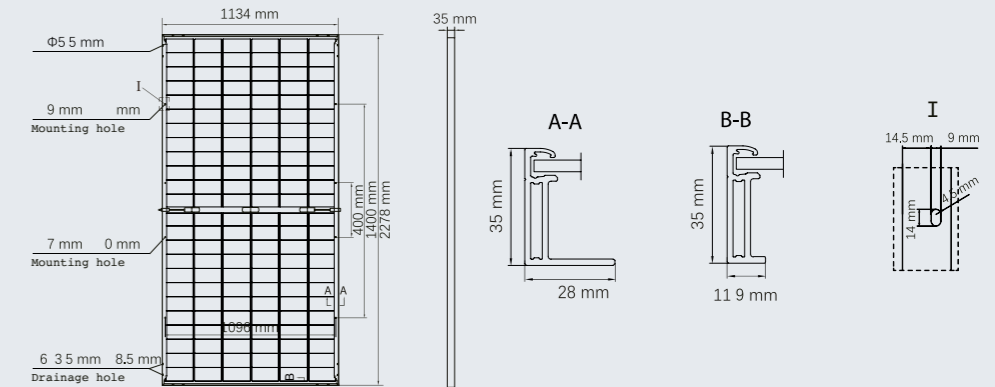
Solahart SunCell 400W



Solahart SunCell 450W



Astro Bifacial 545



Inverters



ALL
PRODUCTS



Inverters are the 'brains' of your solar power system. Their primary function is to convert the direct current (DC) output into alternating current (AC) – AC is the standard used by all home appliances. And just like solar panels, not all inverters are built the same.

Your inverter needs to provide efficiency and reliability so you can get the most power out of your solar system – which is why Rheem only selects inverter suppliers we can trust. Our range of SolarEdge, FIMER and GoodWe inverters are world-class products we're proud to stock. They are also the perfect partners for our high-efficiency solar panels and our range of battery storage solutions.

Before releasing new models into our product range, we thoroughly check certifications and performance data from the manufacturer, and we also perform our own field tests to ensure quality and reliability. For that extra piece of mind, all our inverters come with a 10-year warranty.

Technical Data

Inverters – SolarEdge



Solar Edge Home Genesis

Model	SE6000H-AULOBEU4	SE10000H-AULOBEU4
Max. Input Power (W)	7750	15500
Max. Input Voltage (Vdc)	480	480
AC Output Voltage Range (Vac)	184 – 264.5	184 – 264.5
Maximum Input Current (A _{dc})	13.5	22.5
Short Circuit Current from the PV Array (A)	23	45.5
Number of Strings	1-2	1-3
Nominal Output Voltage (Vac)	220 / 230	220 / 230
Maximum Continuous Output Current (A)	23	45.5
Max. Efficiency	99.2%	99.2%
Weight (kg)	11.4	17.6
Dimension H x W x D (mm)	450 x 370 x 174	540 x 370 x 185



Solar Edge Home Hub

Model	SE5000H-MM	SE6000H-MM	SE10000H-MM
Max. Input Power (W)	TBC	TBC	TBC
Max. Input Voltage (Vdc)	480	480	480
AC Output Voltage Range (Vac)	184-264.5	184-264.5	184-264.5
Maximum Input Current (A _{dc})	14	16.5	25.5
Short Circuit Current from the PV Array (A)	TBC	TBC	TBC
Number of Strings	TBC	TBC	TBC
Nominal Output Voltage (Vac)	220 / 230	220 / 230	220 / 230
Maximum Continuous Output Current (A)	23	27.5	45.5
Max. Efficiency	99.2%	99.2%	99.2%
Weight (kg)	TBC	TBC	TBC
Dimension H x W x D (mm)	450 x 370 x 174	450 x 370 x 174	540 x 370 x 185

Solar Edge Power Optimiser

Model	SE1000	S440
Rated Input DC Power	1000	440
Absolute Maximum Input Voltage (Voc)	125	60
Maximum Output Current	18	15
Maximum Output Voltage	80	60
Maximum Short Circuit Current (Isc) of Connected PV Module	15	14.5
MPPT Operating Range	12.5 – 105	8 – 60
Maximum Allowed System Voltage	1000	1000
Protection Rating	IP68 / NEMA6P	IP68
Max. Efficiency	99.5	99.5
Weight (kg)	1.064 (including cables)	0.720
Dimension H x W x D (mm)	129 x 165 x 52	129 x 155 x 30



Inverters – Fimer

Residential – UNO-DM-3.3/3.6/4.0/4.6/5.0 TL-PLUS-Q

Model	UNO-DM-3.3-TLPLUS-Q	UNO-DM-5.0-TLPLUS-Q
Rated DC input power (W)	3500	5150
Max. Input Voltage (V)	600	600
AC Output Voltage Range (Vac)	0.7 x Vstart...580 V (min 90 V)	0.7 x Vstart...580 V (min 90 V)
Start-up Voltage (V)	200	200
Max. Input Current per MPPT (A)	20.0/10.0	30.5/19-11.5 (MPPT 1 - MPPT 2)
Max. Short Circuit Current per MPPT (A)	20	22
Rated AC power Output (W)	3300	5000
Rated AC Grid Voltage Output (V)	230	230
Max. Output Current (A)	14.5	22.0
Max. Efficiency	97%	97.4%
Weight (kg)	15	15
Dimension H x W x D (mm)	553 x 418 x 175	553 x 418 x 175

Residential – UNO-DM-6.0-TL-PLUS-Q

Model	UNO-DM-6.0-TL-PLUS-Q	PVS-100-TL
Wiring Box version	n/a	SX, SX2, SY, SY2, Standard, S2
Rated DC input power (W)	3500	102000
Max. Input Voltage (V)	600	1000
AC Output Voltage Range (Vac)	0.7 x Vstart...580 V (min 90 V)	n/a
Start-up Voltage (V)	200	420
Max. Input Current per MPPT (A)	20.0/10.0	36 / 108
Max. Short Circuit Current per MPPT (A)	20	50 / 150
Rated AC power Output (W)	3300	100000
Rated AC Grid Voltage Output (V)	230	400
Max. Output Current (A)	14.5	145
Max. Efficiency	97%	98.4%
Weight (kg)	15	70 for power module & 55 for wiring box. Overall max 125
Dimension H x W x D (mm)	553 x 418 x 175	869 x 1086 x 419

Commercial – PVS-100/120-TL





Residential – TDS Series - 3.0 - 5.9kW Single Phase - Dual MPPT

Model	GW5000N-EH
Max. Input Power (W)	7500
Max. Input Voltage (V)	580
MPPT Operating Voltage Range (V)	100 ~ 550
Start-up Voltage (V)	90
Max. Input Current per MPPT (A)	13
Max. Short Circuit Current per MPPT (A)	16
Number of MPP trackers	2
Number of Strings per MPPT	1
Nominal Output Voltage (V)	230 / 220*6
Output Voltage Range (V)	0 ~ 300
Nominal Output Current (A)	21.7
Max. Efficiency	97.6%
Weight (kg)	17.0
Dimension H x W x D (mm)	354 x 433 x 147

Inverters – Goodwe

Residential – XS Series 1.5-2.5kW | 1 MPPT | Single Phase

Model	GW2500N-XS	GW1500-XS-11	GW2500-XS-11
Max. Input Power (W) ^{*1}	3250	1950	3250
Max. Input Voltage (V)	600	500	600
MPPT Operating Voltage Range (V)	50 ~ 550	50 ~ 450	50 ~ 550
Start-up Voltage (V)	50	50	50
Max. Input Current per MPPT (A)	13	15	15
Max. Short Circuit Current per MPPT (A)	16.3	18.75	18.75
Number of MPP trackers	1	1	1
Number of Strings per MPPT	1	1	1
Nominal Output Power (W)	2500	1500	2500
Nominal Output Voltage (V)	220 / 230	230	220 / 230
Max. Output Current (A)	12	7.2	12
Max. Efficiency	97.6%	97.3%	97.6%
Weight (kg)	5.8	5.8	5.8
Dimension H x W x D (mm)	295 x 230 x 113	295 x 230 x 113	295 x 230 x 113

*1: Please visit GoodWe website for the latest certificates

Residential – MS Series 5-10kW | 3 MPPTs | Single Phase

Model	GW10K-MS	GW10K-MS-30
Max. Input Power (W) ^{*1}	13500	15500
Max. Input Voltage (V)	600	600
MPPT Operating Voltage Range (V)	80 ~ 550	40 ~ 560
Start-up Voltage (V)	80	50
Max. Input Current per MPPT (A)	16	20
Max. Short Circuit Current per MPPT (A)	20	25
Number of MPP trackers	3	3
Number of Strings per MPPT	1	1
Nominal Output Power (W)	10000	10000
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240
Max. Output Current (A)	45.5	43.5*6
Max. Efficiency	97.7%	97.9%
Weight (kg)	22.5	19.0
Dimension H x W x D (mm)	511 x 415 x 175	441 x 507 x 210

Residential – EH Series - 5kW Single Phase - 2 MPPTs - Battery Ready (HV)

Model	GW5000N-EH
Max. Input Power (W)	7500
Max. Input Voltage (V)	580
MPPT Operating Voltage Range (V)	100 ~ 550
Start-up Voltage (V)	90
Max. Input Current per MPPT (A)	13
Max. Short Circuit Current per MPPT (A)	16
Number of MPP trackers	2
Number of Strings per MPPT	1
Nominal Output Voltage (V)	230 / 220*6
Output Voltage Range (V)	0 ~ 300
Nominal Output Current (A)	21.7
Max. Efficiency	97.6%
Weight (kg)	17.0
Dimension H x W x D (mm)	354 x 433 x 147

Residential – DNS G3 Series – 3.0-6kW Single Phase – 2 MPPTs

Model	GW3000-DNS-30	GW5000-DNS-30	GW6000-DNS-30
Max. Input Power (W)	4500	7500	9000
Max. Input Voltage (V)	600	600	600
MPPT Operating Voltage Range (V)	40 ~ 560	40 ~ 560	40 ~ 560
Start-up Voltage (V)	50	50	50
Max. Input Current per MPPT (A)	16	16	16
Max. Short Circuit Current per MPPT (A)	23	23	23
Number of MPP trackers	2	2	2
Number of Strings per MPPT	1	1	1
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Nominal Output Power (W)	3000	5000	6000
Max. Efficiency	97.9%	97.9%	97.9%
Weight (kg)	12.8	12.8	13.4
Dimension H x W x D (mm)	350 x 410 x 143	350 x 410 x 143	350 x 410 x 143

Residential – SDT G2 Series 5-20 kW | Three Phase 2 MPPTs

Model	GW5KDT	GW5000- SDT-20	GW8KAUDT	GW10KAUDT	GW15KAUDT	GW20KAUDT
Max. Input Power (W) ¹	7500	7500	12000	15000	22500	30000
Max. Input Voltage (V)	1000	1000	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	180 ~ 850	180 ~ 850	140 ~ 950	140 ~ 950	140 ~ 950	140 ~ 950
Start-up Voltage (V)	160	180	180	180	180	180
Max. Input Current per MPPT (A)	12.5	16	30	30	30	30
Max. Short Circuit Current per MPPT (A)	15.6	20	37.5	37.5	37.5	37.5
Number of MPP trackers	2	2	2	2	2	2
Number of Strings per MPPT	1	1	2	2	2	2
Nominal Output Power (W)	5000	5000	8000	10000	15000	20000
Nominal Output Voltage (V)	400, 3L/NPE	400, 3L/NPE	400, 3L/NPE	400, 3L/NPE	400, 3L/NPE	400, 3L/NPE
Max. Output Current (A)	8.0	8.0	12.8	16.0	24.0	31.9
Max. Efficiency	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
Weight (kg)	15.0	15.0	20.5	20.5	26.0	26.0
Dimension H x W x D (mm)	354x433x147	354x433x147	415x511x175	415x511x175	415x511x175	415x511x175

Commercial – SMT Series 25-36kW | 3 MPPTs | Three Phase

Model	GW25K-MT	GW29.9K-MT	GW36K-MT
Max. Input Power (W) ¹	32500	39000	42900
Max. Input Voltage (V)	1100	1100	1100
MPPT Operating Voltage Range (V)	200 ~ 950	200 ~ 950	200 ~ 950
Start-up Voltage (V)	180	180	180
Max. Input Current per MPPT (A)	30	30	30
Max. Short Circuit Current per MPPT (A)	37.5	37.5	37.5
Number of MPP trackers	3	3	3
Number of Strings per MPPT	2	2	2
Nominal Output Power (W)	25000	29900	36000
Nominal Output Voltage (V)	400, 3L / N / PE or 3L / PE	400, 3L / N / PE or 3L / PE	400, 3L / N / PE or 3L / PE
Max. Output Current (A)	40.0	43.3	53.3
Max. Efficiency	98.7%	98.8%	98.8%
Weight (kg)	40.0	40.0	40.0
Dimension H x W x D (mm)	480 x 590 x 200	480 x 590 x 200	480 x 590 x 200

Commercial – MT Series 50-80kW | Three Phase | 4 MPPTs

Model	GW50KN-MT	GW60KN-MT	GW80K-MT
Max. Input Power (W) ¹	65000	80000	120000
Max. Input Voltage (V)	1100	1100	1100
MPPT Operating Voltage Range (V)	200 ~ 1000	200 ~ 1000	200 ~ 1000
Start-up Voltage (V)	200	200	200
Max. Input Current per MPPT (A)	33 / 33 / 22 / 22	33	44
Max. Short Circuit Current per MPPT (A)	41.5 / 41.5 / 27.5 / 27.5	41.5	55
Number of MPP trackers	4	4	4
Number of Strings per MPPT	3 / 3 / 2 / 2	3	4 (Standard), 3 (Optional, Support bifacial module)
Nominal Output Power (W)	50000	60000	80000
Nominal Output Voltage (V)	400, 3L / N / PE or 3L / PE	400, 3L / N / PE or 3L / PE	400, 3L / N / PE or 3L / PE
Max. Output Current (A)	80.0	96.0	133.0
Max. Efficiency	98.7%	98.8%	98.8%
Weight (kg)	59.0	64.0	70.0
Dimension H x W x D (mm)	586 x 788 x 264	586 x 788 x 264	586 x 788 x 267

Commercial – HT Series | 1100Vdc - 100-136kW | Three Phase | Up to 12 MPPTs

Model	GW100K-HT	GW110K-HT	GW120K-HT	GW136K-HTH
Max. Input Power (W) ¹	150	165	180	205
Max. Input Voltage (V)	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	180 ~ 1000	180 ~ 1000	180 ~ 1000	180 ~ 1000
Start-up Voltage (V)	200	200	200	200
Max. Input Current per MPPT (A)	30	30	30	30
Max. Short Circuit Current per MPPT (A)	45	45	45	45
Number of MPP trackers	10	12	12	12
Number of Strings per MPPT	2	2	2	2
Nominal Output Power (W)	99.99	110	120	136
Nominal Output Voltage (V)	400, 3L / N / PE or 3L / PE	400, 3L / N / PE or 3L / PE	500, 3L / PE	500, 3L / PE
Max. Output Current (A)	167.0	175.5	191.3	173.2
Max. Efficiency	98.6%	98.6%	98.6%	99.0%
Weight (kg)	93.5	98.5	98.5	98.5
Dimension H x W x D (mm)	1008 x 678 x 343	1008 x 678 x 343	1008 x 678 x 343	1008 x 678 x 343

Inverters – Goodwe – Energy Storage

Residential – ES G2 Series 3-6 kW | Single Phase 2 MPPTs | Hybrid Inverter

Model	GW5000-ES-20	GW6000-ES-20
Max. Input Power (W) ¹	7500	9000
Max. Input Voltage (V)	600	600
MPPT Operating Voltage Range (V)	60 ~ 550	60 ~ 550
Start-up Voltage (V)	58	58
Max. Input Current per MPPT (A)	16	16
Max. Short Circuit Current per MPPT (A)	23	23
Number of MPP trackers	2	2
Number of Strings per MPPT	1	1
Nominal Output Power (W)		
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240
Max. Output Current (A)	22.7	27.3
Max. Efficiency	97.6%	97.6%
Weight (kg)	21.5	21.5
Dimension H x W x D (mm)	505.9 x 434.9 x 154.8	505.9 x 434.9 x 154.8

ET Series 15-29.9 kW | 3 MPPTs | Three Phase | Hybrid Inverter

Model	GW15K-ET	GW20K-ET	GW25K-ET	GW29.9K-ET
Max. Input Power (W) ¹	22500	30000	37500	45000
Max. Input Voltage (V)	1000	1000	1000	1000
MPPT Operating Voltage Range (V)	200 ~ 850	200 ~ 850	200 ~ 850	200 ~ 850
Start-up Voltage (V)	200	200	200	200
Max. Input Current per MPPT (A)	30	30	30	30
Max. Short Circuit Current per MPPT (A)	38	38	38	38
Number of MPP trackers	2	2	3	3
Number of Strings per MPPT	2 / 2	2 / 2	2 / 2 / 2	2 / 2 / 2
Nominal Output Power (W)	15000	20000	25000	29900
Nominal Output Voltage (V)	380 / 400, 3L / N / PE	380 / 400, 3L / N / PE	380 / 400, 3L / N / PE	380 / 400, 3L / N / PE
Max. Output Current (A)	22.7 (27.3@60s, 36.4@3s)	30.3 (36.4@60s, 48.5@3s)	37.9 (45.5@60s)	45.5 (54.5@60s)
Max. Efficiency	98.0%	98.0%	98.0%	98.0%
Weight (kg)	48	48	54	54
Dimension H x W x D (mm)	520 x 660 x 220	520 x 660 x 220	520 x 660 x 220	520 x 660 x 220

Energy Storage – ES Series 5kW I Single Phase Hybrid Inverter

Model	GW3648D-ES	GW5048D-ES
Max. Input Power (W)	4600	6500
Max. Input Voltage (V)	580	580
MPPT Operating Voltage Range (V)	125 ~ 550	125 ~ 550
Start-up Voltage (V)	125	125
Max. Input Current per MPPT (A)	14	14
Max. Short Circuit Current per MPPT (A)	17.5	17.5
Number of MPP trackers	2	2
Number of Strings per MPPT	1	1
Nominal Apparent Power Output to Utility Grid (VA)	3680	5000
Nominal Output Voltage (V)	230	230
Max. AC Current Output to Utility Grid (A)	16	24.5
Max. Efficiency	97.6%	97.6%
Weight (kg)	28	30
Dimension H x W x D (mm)	516 x 440 x 184	516 x 440 x 184

Energy Storage – ET Series 5-10kW I Three Phase Hybrid Inverter

Model	GW5KL-ET	GW6KL-ET	GW8KL-ET	GW10KL-ET
Max. Input Power (W) ¹	6650	7980	10640	13300
Max. Input Voltage (V)	1000	1000	1000	1000
MPPT Operating Voltage Range (V)	200 ~ 850	200 ~ 850	200 ~ 850	200 ~ 850
Start-up Voltage (V)	180	180	180	180
Max. Input Current per MPPT (A)	12.5 / 12.5	12.5 / 12.5	12.5 / 22	12.5 / 22
Max. Short Circuit Current per MPPT (A)	15.2 / 15.2	15.2 / 15.2	15.2 / 27.6	15.2 / 27.6
Number of MPP trackers	2	2	2	2
Number of Strings per MPPT	1 / 1	1 / 1	1 / 2	1 / 2
Nominal Output Power (W)	5000	6000	8000	10000
Nominal Output Voltage (V)	400 / 380, 3L / N / PE	400 / 380, 3L / N / PE	400 / 380, 3L / N / PE	400 / 380, 3L / N / PE
Max. AC Current Output to Utility Grid (A)	8.5	10.5	13.5	16.5
Max. Efficiency	97.6%	97.6%	97.6%	97.6%
Weight (kg)	24	24	25	25
Dimension H x W x D (mm)	415 x 516 x 180	415 x 516 x 180	415 x 516 x 180	415 x 516 x 180

¹: 4600W for VDE0126-1-1&VDE-AR-N 4105 and CEI 0-21.

Energy Storage – SBP Series - 5.0kW single Phase, Dual MPPT, LV, AC Coupled

AC Output Data (on-grid)	GW5000S-BP
Nominal apparent power output to utility grid	5000 VA ¹
Max output apparent power to utility grid ²	5000 VA
Max apparent power from utility grid (VA)	9200 VA
Nominal output voltage	230 V
Nominal output frequency	50/60 Hz
Max AC current from utility grid	40 A

AC Output Data (Backup)	Battery Input Data		
Max output apparent power	5000 VA	Battery type	Li-Ion
Peak output apparent power ⁴	5500, 10 sec	Nominal battery voltage	48 V
Automatic switch time	10 ms	Max. charging current ⁵	100 A
Max output current	22.8 A	Max. discharging current ⁵	100 A
Nominal output voltage	230 (±2%)		

Technical Data	GW5000S-BP
Maximum efficiency	95.5%
Weight	30 kg
Size (W x H x D)	516 x 440 x 184 mm
Mounting	Wall bracket
Manufacturer's warranty	5 Years [†]

¹ 4600W for VDE0126-1-1&VDE-AR-N 4105 and CEI 0-21. ² For CEI 0-21 GW5000S-BP is 5100W; for VDE-AR-N4105 GW5000S-BP is 4600W. ⁴Can be reached only if PV and battery power is enough. ⁵ The actual charge and discharge current also depends on the battery. [†]For full details see the manufacturer's warranty statement. ^{*}For full details see Solahart Owner's Guide & Installation Instructions

Residential – SBP G2 Series 3.6-6kW I Single Phase

Model	GW5000-SBP-20	GW6000-SBP-20
Max. Input Power (W) ¹	n/a	n/a
Max. Input Voltage (V)	n/a	n/a
MPPT Operating Voltage Range (V)	n/a	n/a
Start-up Voltage (V)	40	40
Max. Input Current per MPPT (A)	n/a	n/a
Max. Short Circuit Current per MPPT (A)	n/a	n/a
Number of MPP trackers	n/a	n/a
Number of Strings per MPPT	n/a	n/a
Nominal Output Power (W)	5000	6000
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240
Max. Output Current (A)	22.7	27.3
Max. Efficiency	95.5%?	95.5%?
Weight (kg)	19.5	19.5
Dimension H x W x D (mm)	505.9 x 434.9 x 154.8	505.9 x 434.9 x 154.8 *AC Coupled battery inverter

Batteries



ALL PRODUCTS



In most New Zealand homes, a large proportion of the energy produced by solar power panels is sent back to the grid because it's generated when it's not needed (e.g. in the middle of the day).

Adding home battery storage to a new or existing solar power system allows you to store your unused energy to use at night, on low sunlight days, when utility rates are more expensive or during blackouts. Batteries also provide a smart way to offset your electricity costs as you maximise your solar energy usage and minimise your reliance on the grid.

Our range includes the SolarEdge Energy Bank battery and the GoodWe battery, both of which are reliable, industry-leading products. We also have experienced dealers and accredited installers who are perfectly positioned to provide expert advice on Battery Storage systems and recommend the right configuration for your situation. Whether you're looking to combine a battery with a new or existing solar power system, we'll show you the best way to reduce your energy costs.

Batteries – Goodwe



Lynx Home U Series - BAU5400-01-00P

Technical Data

Model	LX U5.4-L	2*LX U5.4-L	3*LX U5.4-L	4*LX U5.4-L	5*LX U5.4-L	6*LX U5.4-L
Rated Energy (kWh)*	5.4 kWh	10.8 kWh	16.2 kWh	21.6 kWh	27 kWh	32.4 kWh
Usable Energy (kWh)*	4.8 kWh	9.6 kWh	14.4 kWh	19.2 kWh	24 kWh	28.8 kWh
Cell Type	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)
Cell Configuration	16S1P	16S2P	16S3P	16S4P	16S5P	16S6P
Rated Voltage (V)	51.2 V	51.2 V	51.2 V	51.2 V	51.2 V	51.2 V
Operating Voltage Range (V)	48~57.6 V	48~57.6 V	48~57.6 V	48~57.6 V	48~57.6 V	48~57.6 V
Max. Continuous Discharge Current (A)*	50A	100A	100A	100A	100A	100A
Max. Discharge Power (kW)*	2.88 kW	5.76 kW	5.76 kW	5.76 kW	5.76 kW	5.76 kW
Weight (Kg)	57 Kg	114 Kg	171 Kg	228 Kg	285 Kg	342 Kg
Dimensions (W x D x H) (mm)	505 x 175 x 570 mm (LX U5.4-L)	505 x 175 x 570 mm (LX U5.4-L)	505 x 175 x 570 mm (LX U5.4-L)	505 x 175 x 570 mm (LX U5.4-L)	505 x 175 x 570 mm (LX U5.4-L)	505 x 175 x 570 mm (LX U5.4-L)
Protection Degree	IP65 (Outdoor / Indoor)	IP65 (Outdoor / Indoor)	IP65 (Outdoor / Indoor)	IP65 (Outdoor / Indoor)	IP65 (Outdoor / Indoor)	IP65 (Outdoor / Indoor)
Installation Location	Wall-Mounted / Ground-Mounted	Wall-Mounted / Ground-Mounted	Wall-Mounted / Ground-Mounted	Wall-Mounted / Ground-Mounted	Wall-Mounted / Ground-Mounted	Wall-Mounted / Ground-Mounted

Rated Energy*: Test conditions, Cell Voltage 2.5~3.65V, 0.5C charge & discharge at +25±3 °C.
Usable Energy*: Test conditions, 90% DOD, 0.5C charge & discharge at +25±3 °C. Max. Continuous Discharge Current*/Power*: Max. Continuous Charge/Discharge and power derating will occur related to Temperature and SOC.



Lynx Home F Series - High Voltage Battery

Technical Data

Model	LX F6.6-H	LX F9.8-H	LX F13.1-H	LX F16.4-H
Rated Energy (kWh)*	6.55 kWh	9.83 kWh	13.10 kWh	16.38 kWh
Usable Energy (kWh)*	6.55 kWh	9.83 kWh	13.10 kWh	16.38 kWh
Cell Type	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)
Cell Configuration	64S1P	96S1P	128S1P	160S1P
Rated Voltage (V)	204.8 V	307.2 V	409.6 V	512 V
Operating Voltage Range (V)	182.4~230.4 V	273.6~345.6 V	364.8~460.8 V	456~576 V
Max. Continuous Discharge Current (A)*	25A	25A	25A	25A
Max. Discharge Power (kW)*	6.1 kW	9.2 kW	12.2 kW	15.3 kW
Weight (Kg)	115 Kg	158 Kg	201 Kg	244 Kg
Dimensions (W x D x H) (mm)	600 x 625 x 380	600 x 780 x 380	600 x 935 x 380	600 x 1090 x 380
Protection Degree	IP55	IP55	IP55	IP55
Installation Location	Grounded	Grounded	Grounded	Grounded

*1: Test conditions, 100% DOD, 0.2C charge & discharge at +25±2 °C for battery system at beginning life. System usable energy may vary with different inverters.
*2: Nominal dis-/charge current and power derating will occur related to temperature and SOC. *: Please visit GoodWe website for the latest certificates. All product specifications are subject to change without notice

Racking & Components

We can provide all the equipment you need to set up your solar solution. Whether you're looking for a residential or commercial application, our range of racking and components will make the installation process safe, secure and straightforward.

We only stock robust products that can endure the often-harsh NZ conditions, including a selection of the popular PV-ezRack range. PV-ezRack have embraced sustainable design, offering the solar industry creative and versatile racking solutions.

Their robust systems are suitable for both tin and tile roofs and can be adapted across a wide range of applications. Unique Kliplok clamps and accessories compliment PV-ezRack's technically advanced solar mounting gear, ensuring you have everything you need to install your solar solution.



Reliable, robust roof mounting system with high quality components designed for the harshest conditions.

PV-ezRack® SolarRoof has been developed for both residential and commercial PV installations on tin and tile roofs. The components are easy to install and can be used for flush as well as tilted systems, on a large variety of roof types. The interfaces, rails and clamps use high quality, robust and corrosion resistant materials including structural grade aluminium alloy (AL6005-T5) and stainless steel (SUS304)

Quick and Easy Installation

Innovative and internationally patented, the Z-Module and Click Module technology are used in almost all SolarRoof components. The Z-Module and Click Module quick provide easy and safe installation method. They can be inserted into the rail at any given point, and secured with just two or three hand grips.

Versatility

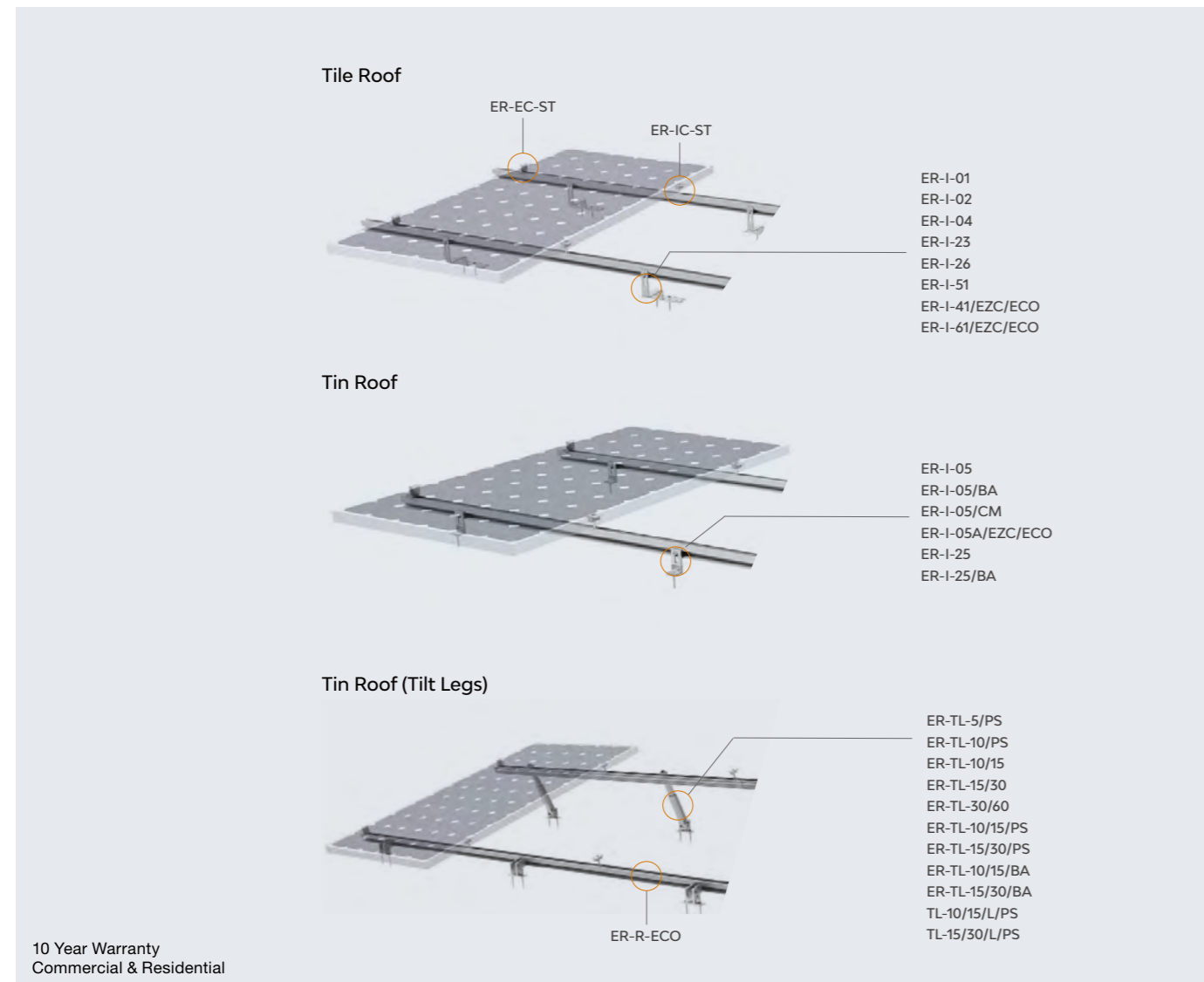
A large variety of roof hooks, metal roof fixings, tilt legs and adapters help ensure that you will find a suitable fixing method for almost every roof, where fixing with penetration is required.

Wide Range of Tilting

With three adjustable tilt legs, these parts can tilt panels from between 10-60 degrees. Through its innovative design, the tilt legs can cope with all common purlin distances.

Universal

SolarRoof has suitable inter and end clamps for every size of solar panel including frameless, thin film panels or special clamps for cyclonic regions. In the growing range of clamps, cable clips, adapters and accessories you are sure to find the parts you require for your residential or commercial rooftop mounting needs.



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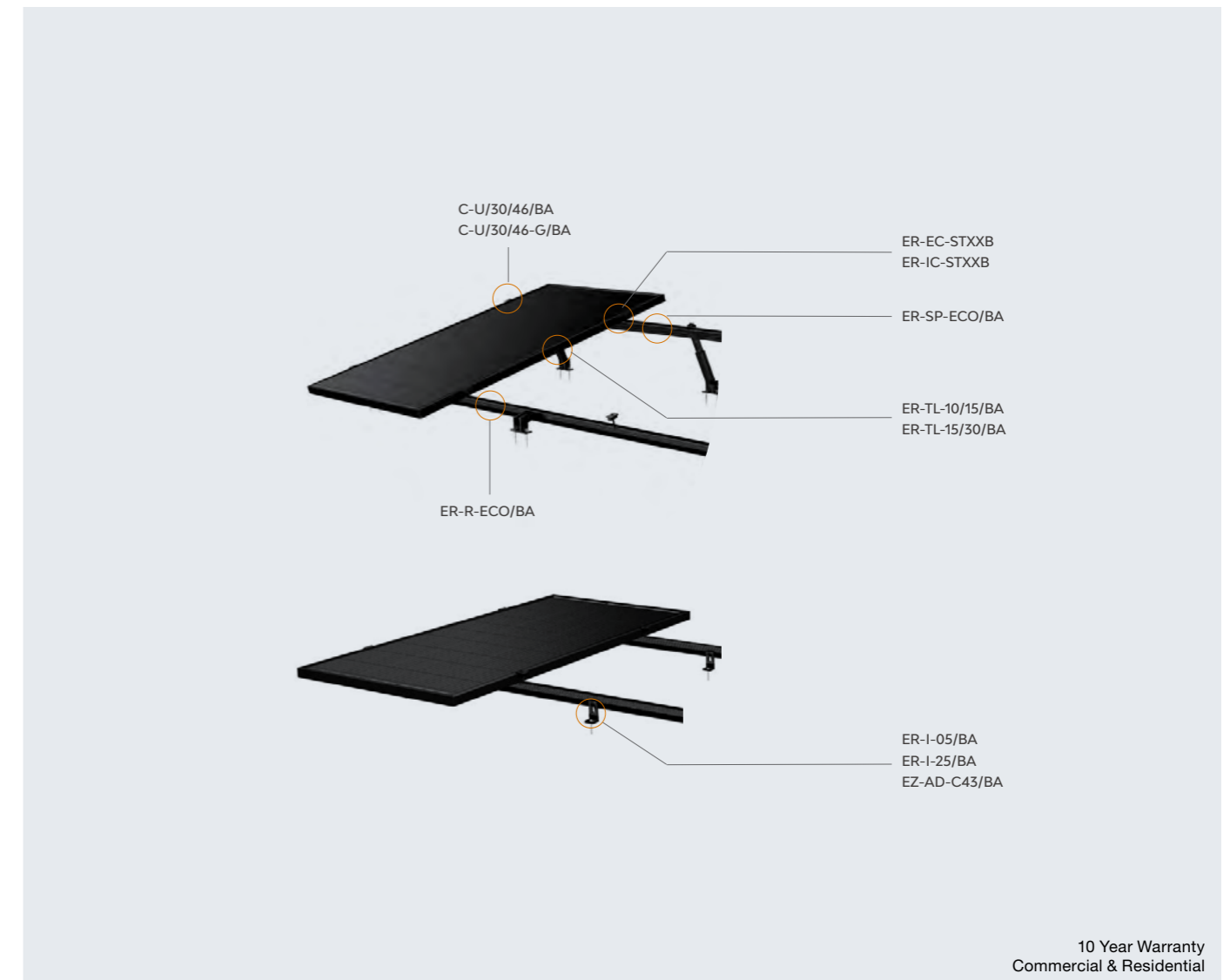
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Racking – SolarTerrace II-A



Pre-assembled, durable and earthed ground mount frame with ramming

PV-ezRack® SolarTerrace II-A is a pre-assembled ground mount system with full earthing function suitable for commercial and utility scale installations. This quality frame is trimmed at every angle for fast deployment reducing labour costs. It was designed with a unique post profile which allows reduced embedment and therefore saves on material and labour. These features, combined with its high grade of pre-assembly make SolarTerrace II-A one of the best ground mount system you can find.

Reduced Labour Costs

Through our unique, patented component design and pre-assembled supports with pre-installed positioning clamps** labour time and costs are greatly reduced.

Reduced Component Costs

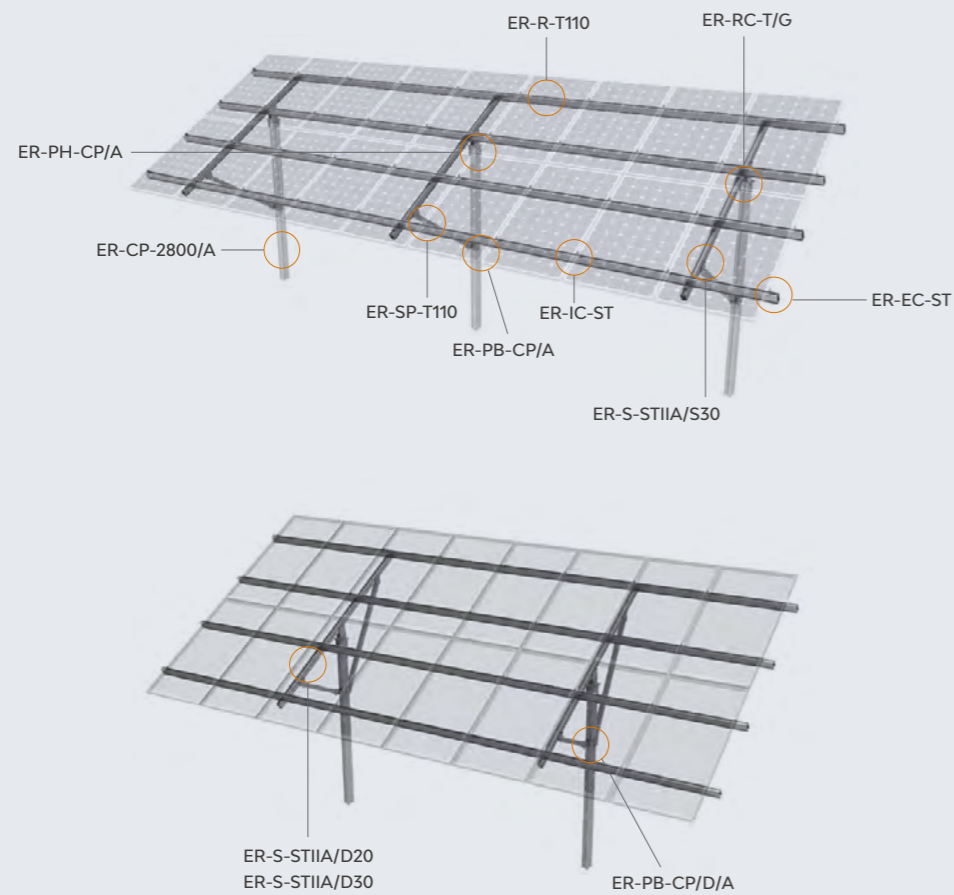
Our unique C-Post was designed specifically for ramming. This results in an increased friction against up-lift and it therefore requires less embedment as conventional standard posts or I-beams, which reduces not only labour time for ramming but also material costs.

Wide Range of Adjustments

As ramming can never be done exact on millimetre, the post head is designed with sufficient horizontal rotation and vertical adjustments. This combined with a generous design tolerance levels makes it easy to get the panels perfectly aligned even if the ramming isn't 100%.

Full Earthing Function

With pre-fitted pressure bolts and star washers in post head, post brace and pre-assembled support, it can create earthing continuity from T rail to post. In this way, SolarTerrace II-A system is a full earthing system.



10 Year Warranty
Utility & Commercial

Racking – SolarTerrace III-A



Universal and earthed ground mount frame for corrosive environments and for tough soil conditions

Manufactured from high quality structural grade and anodised aluminium, PV-ezRack® SolarTerrace III-A is the perfect mounting solution for corrosive environments. The support legs can be installed either with concrete ballast footing or on ground screws which makes it suitable for almost every soil condition. Its user friendly high level of prefabrication makes it easy to install and therefore practical for smaller commercial and even for residential installations.

Durable Even in Harsh Environments

STIII-A contains only 6005 Aluminium alloy and 304 stainless steel (316 on request), which makes it suitable for even the toughest environments, such as corrosive sites close to coastlines.

Support Leg Is Delivered in One Piece

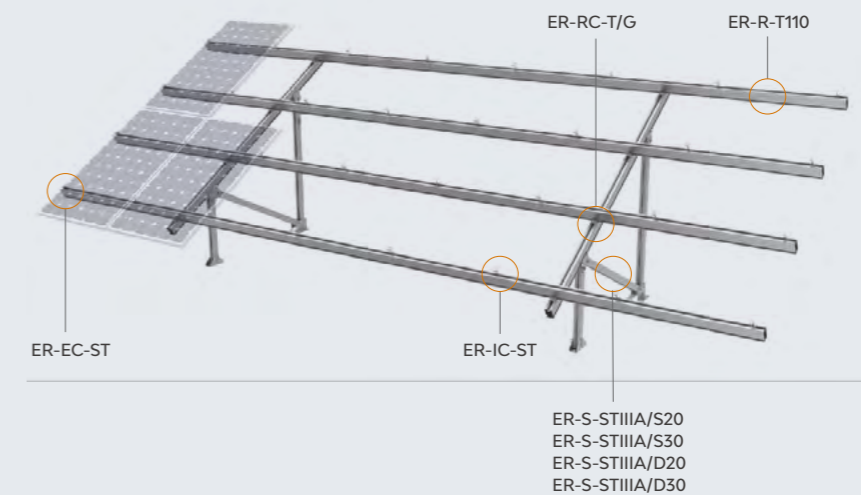
The support legs of the STIII-A are completely pre-assembled, they only needed to be opened up and secured to the foundation. They even have the positioning rail clamps pre-installed**, so you don't need to measure and mark the rail positions anymore. The combination of these features is saving valuable time in assembly and logistics, making it one of the fastest system on the market.

Suitable for All Soil and Ground Type

The support legs can be installed either with a concrete ballast footing or with ground screws. This makes STIII-A suitable for the most challenging soil conditions where ramming is not possible.

Full Earthing Function

With pre-fitted pressure bolts and star washers in the pre-assembled support, it can create earthing continuity from T-Rail to support. In this way, SolarTerrace III-A system is a full earthing system.



10 Year Warranty
Utility, Commercial & Residential

Robust pole mount system with adjustable angle for one, two and three XL panels

Clenergy's PV-ezRack® PostMount 1/2/3-A for XL Panels delivers flexible and durable designs to mount from one to three panels, up to 2100x1100mm per post. It's ideal for remote off-grid applications such as water pumps or small residential and commercial systems. The panel tilt is easily adjustable between 10° and 60° throughout the year and comes with hassle-free mounting thanks to patented components such as the PV-ezRack® rails and clamps. The combination of high quality aluminium, stainless steel and galvanised steel components make this a robust, reliable system with excellent corrosion resistance.

Suitable for Every Soil Condition

With its concrete foundation, PostMount-A can be installed on even or uneven ground or on a slope, making it suitable for any soil type and a wide range of applications.

Adjustable Tilt Angle

The steel cap (post head) is designed to tilt panels between 10° and 60° to ensure that you get the required power output you need anywhere, anytime. Changing the angle merely requires a single pair of spanners.

Robust and Reliable

Mounted on aluminium rails the panels are supported by robust galvanised steel landscape and master tubes secured with stainless steel bolts. The post can be fixed into a concrete foundation and also used as a ramming option.

Quick and Easy Installation

Innovative and internationally patented, the Z-Module technology is used in almost all PV-ezRack® components. The Z-Module provides a quick, easy and safe installation method and can be inserted into the rail at any given point, secured with just three hand grips.

Robust pole mount system with adjustable angle for four and six XL panels

Clenergy's PV-ezRack® PostMount 4/6-A for XL Panels delivers flexible and durable designs to be mounted between four and six panels, up to 2100x1100mm per post. It's ideal for remote off-grid applications such as water pumps or small residential and commercial systems. The panel tilt is easily adjustable between 10° and 60° throughout the year and comes with hassle-free mounting thanks to patented components such as the PV-ezRack® rails and clamps. The combination of high quality aluminium, stainless steel and galvanised steel components make this a robust, reliable system with excellent corrosion resistance.

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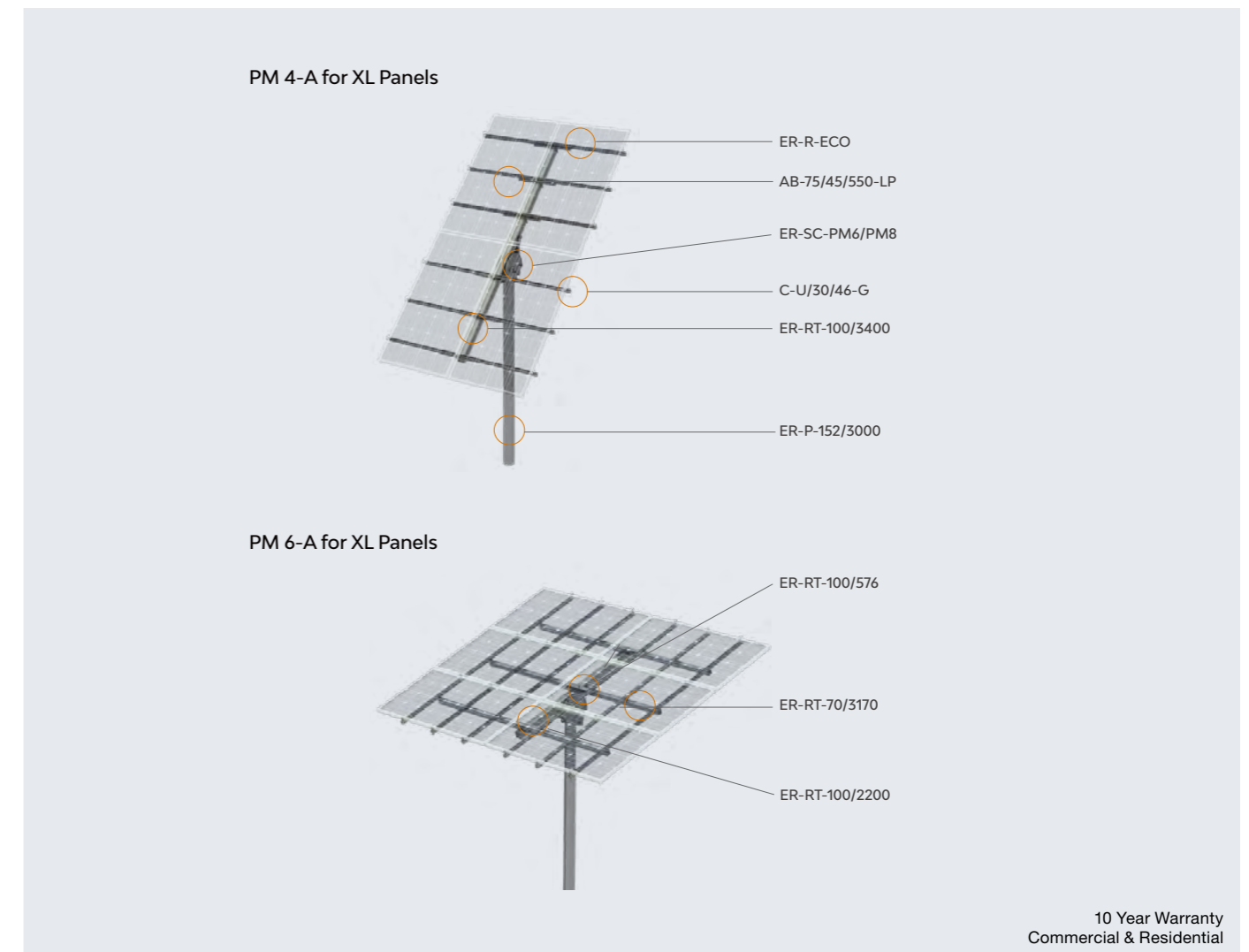
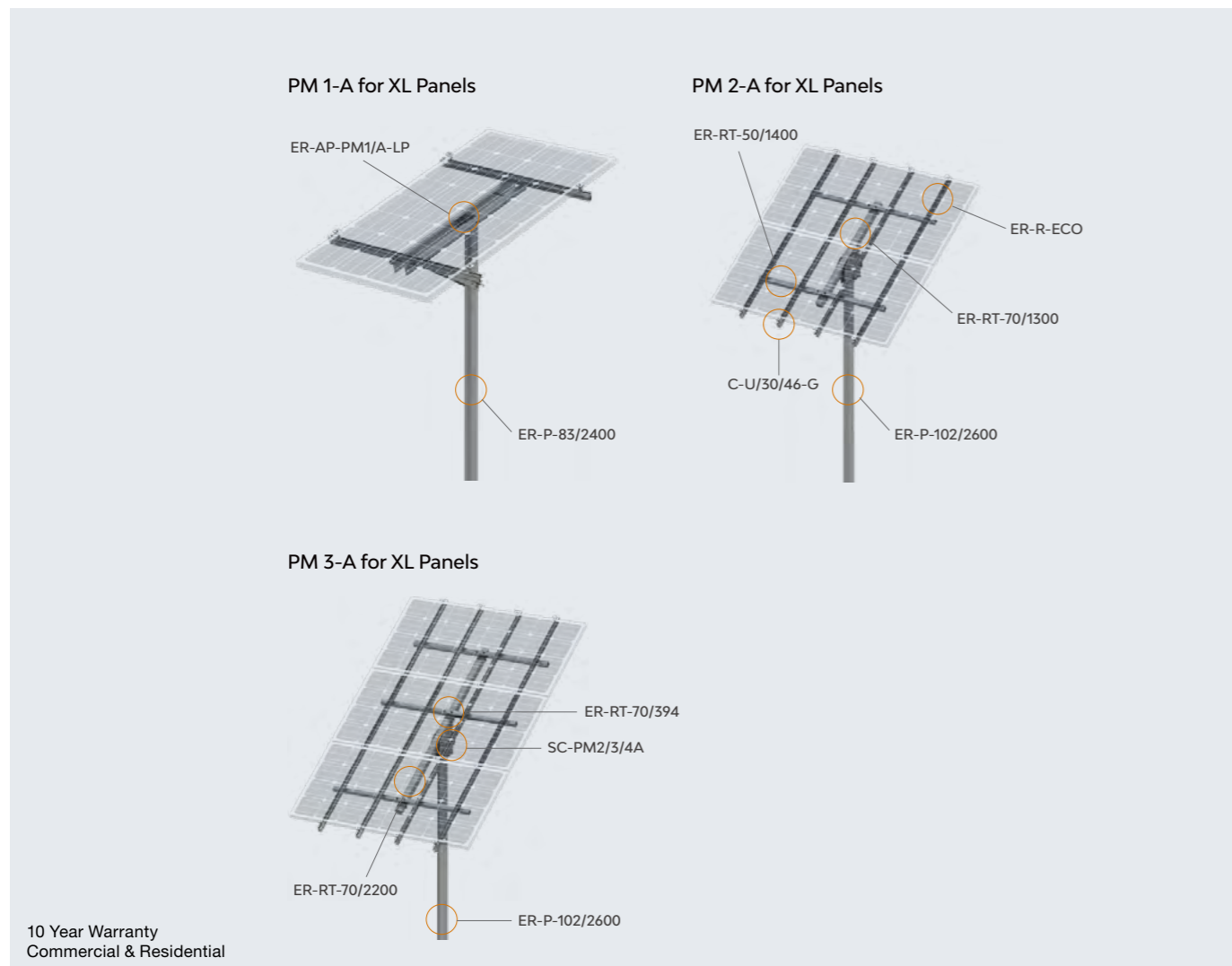
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Support & Where to Buy

We have a passionate sales team who operate around the country, so support for your solar solution is never far away. Our Rheem Solar Team can also provide design tools and are available to solve project challenges.

We can help you design systems, prepare system schematics/specifications and provide basic wiring schematics, and will even offer quoted solutions based on a client's power needs and building.

FOR SALES ENQUIRIES



Paul Sands
Solar Sales

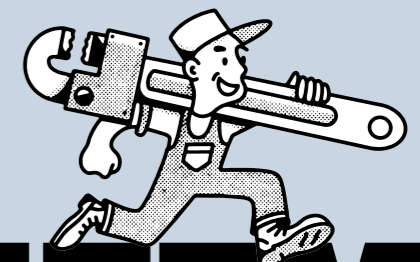
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Install a Rheem®

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