

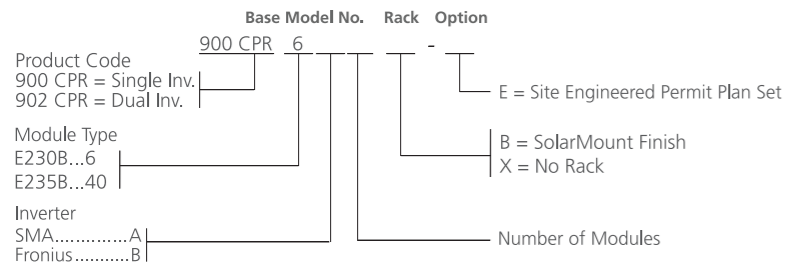


CentroPack® Single Inverter Configurations - 240Vac

E230B Model Number	E235B Model Number	Modules in Series	Parallel Strings	Total Modules	Array ^{①②} Power STC* (W)	Array ^② Power PTC (W)	Qty of Racks x # No. Modules	Approx. Array Area (sq.ft)	Inverter Model	Inverter Power (kW)
900CPR6A10	900CPR40A10	10	1	10	2300	2075	1x4 + 2x3	178	SB 3000US	3.0
900CPR6A11	900CPR40A11	11	1	11	2530	2282.5	2x4 + 1x3	196	SB 3000US	3.0
900CPR6A12	900CPR40A12	12	1	12	2760	2490	4x3	214	SB 3000US	3.0
900CPR6A13	900CPR40A13	13	1	13	2990	2697.5	1x4 + 3x3	231	SB 4000US	4.0
900CPR6A14	900CPR40A14	14	1	14	3220	2905	2x4 + 2x3	249	SB 4000US	4.0
900CPR6A22	900CPR40A22	11	2	22	5060	4565	4x4 + 2x3	392	SB 5000US	5.0
900CPR6A24	900CPR40A24	12	2	24	5520	4980	6x4	427	SB 5000US	5.0
900CPR6A26	900CPR40A26	13	2	26	5980	5395	2x4 + 6x3	463	SB 6000US	6.0
900CPR6A28	900CPR40A28	14	2	28	6440	5810	4x4 + 4x3	498	SB 6000US	6.0
900CPR6A33	900CPR40A33	11	3	33	7590	6847.5	6x4 + 3x3	587	SB 7000US	7.0
900CPR6B11	900CPR40B11	11	1	11	2530	2282.5	2x4 + 1x3	196	IG Plus 3.01-1	3.0
900CPR6B12	900CPR40B12	12	1	12	2760	2490	4x3	214	IG Plus 3.01-1	3.0
900CPR6B13	900CPR40B13	13	1	13	2990	2697.5	1x4 + 3x3	231	IG Plus 3.01-1	3.0
900CPR6B14	900CPR40B14	14	1	14	3220	2905	2x4 + 2x3	249	IG Plus 3.8-1	3.8
900CPR6B16	900CPR40B16	8	2	16	3680	3320	4x4	285	IG 4000	4.0
900CPR6B18	900CPR40B18	9	2	18	4140	3735	6x3	320	IG 4000	4.0
900CPR6B22	900CPR40B22	11	2	22	5060	4565	4x4 + 2x3	392	IG Plus 5.0-1	5.0
900CPR6B24	900CPR40B24	12	2	24	5520	4980	6x4	427	IG Plus 5.0-1	5.0
900CPR6B26	900CPR40B26	13	2	26	5980	5395	2x4 + 6x3	463	IG Plus 6.0-1	6.0
900CPR6B28	900CPR40B28	14	2	28	6440	5810	4x4 + 4x3	498	IG Plus 6.0-1	6.0
900CPR6B33	900CPR40B33	11	3	33	7590	6847.5	6x4 + 3x3	587	IG Plus 7.5-1	7.5
900CPR6B36	900CPR40B36	12	3	36	8280	7470	9x4	641	IG Plus 7.5-1	7.5

CentroPack® Combined-Dual Inverter Configurations - 240Vac

E230B Model Number	E235B Model Number	Modules in Series	Parallel Strings	Total Modules	Array Power STC* (W)	Array Power PTC (W)	Qty of Racks x # No. Modules	Approx. Array Area (sq.ft)	Inverter Model	Inverter Power (kW)
902CPR6A44	902CPR40A44	11	4	44	10120	9130	8x4 + 4x3	783	2X SB 5000US	10.0
902CPR6A48	902CPR40A48	12	4	48	11040	9960	12x4	854	2X SB 5000US	10.0
902CPR6A52	902CPR40A52	13	4	52	11960	10790	4x4 + 12x3	926	2X SB 6000US	12.0
902CPR6A56	902CPR40A56	14	4	56	12880	11620	8x4 + 8x3	997	2X SB 6000US	12.0
902CPR6A66	902CPR40A66	11	6	66	15180	13695	12x4 + 6x3	1175	2X SB 7000US	14.0
902CPR6B44	902CPR40B44	11	4	44	10120	9130	8x4 + 4x3	783	2X IG Plus 5.0-1	10.0
902CPR6B48	902CPR40B48	12	4	48	11040	9960	12x4	854	2X IG Plus 5.0-1	10.0
902CPR6B52	902CPR40B52	13	4	52	11960	10790	4x4 + 12x3	926	2X IG Plus 6.0-1	12.0
902CPR6B56	902CPR40B56	14	4	56	12880	11620	8x4 + 8x3	997	2X IG Plus 6.0-1	12.0
902CPR6B66	902CPR40B66	11	6	66	15180	13695	12x4 + 6x3	1175	2X IG Plus 7.5-1	15.0
902CPR6B72	902CPR40B72	12	6	72	16560	14940	18x4	1282	2X IG Plus 7.5-1	15.0



- CentroPack kits are designed for optimum performance in average ambient temperatures of 5 - 113°F
- Consult with a Centrosolar engineer if your installation requires extreme ambient temperature consideration
- ① Standard testing conditions (STC) 1,000W/m², spectrum AM 1.5, cell temperature 25°C
- ② As shown wattage with reference to 230W module packs

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Pack Content



- E-Series 230 & 235W modules with polycrystalline 60 cell black or clear anodized aluminum frames
- Power inverter(s)
- Unirac® SolarMount® roof mounting system
- ACE PV combiner/pull box (up to 4 strings)
- Array DC wiring system
- Array DC grounding system
- Array wire management hardware kit
- System component labeling, NEC compliant
- Permit-ready drawings plan set option
- AC and DC safety disconnects
- System installation/owner's manual CD

CentroPack® E-SERIES RESIDENTIAL: U.S.A

A Complete Residential PV Kit

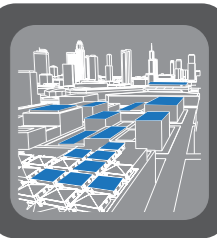
CentroPack kits are a complete and code-complaint PV system for residential grid-tied roof-mounted installations, engineered to provide a turnkey solution that maximizes PV power efficiency throughout the life of the product. Module available in 230 & 235W and fully rated peak power output. Choice of polycrystalline module with silver or black frame.

Matched electrical and mechanical components perform as a balanced PV power array even in low ambient light. The CentroPack kits are designed with a mounting option for complex roof or multi-array layouts.

German Engineered – American Ingenuity Saves Time and Money

- 10 year workmanship warranty on complete system
- Single part number includes everything you need to install a complete roof-mounted grid-tied system
- Dual inverter packs for large arrays or complex roof layouts
- Components are engineered for ease of installation and reliability in harsh environments
- Design services include permit plan sets to ensure a complete approved system
- Modules available in polycrystalline cells with choice of frame color
- Rugged design for extreme weather conditions (hail, snow, wind)

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PV Module E-Series 230 & 235 Watt, choice of colors

- 230 & 235 Watts
- Quality power classification: Range (Wp) 0 to +5W
- 10 year product workmanship warranty.
- Power warranty: 25 years less than 80% and 12 years less than 90% of minimum peak power.
- Internal by-pass diodes across every 20 series cells resist shading effects
- Module certificates: UL1703 cUL, CE Compliant



SMA

Fronius

Inverters

- Power Inverter - Choice of Packages with SMA 'Sunny Boy' or Fronius 'IG Plus' pure sine wave utility interactive inverters, UL1741 listed, outdoor rated, includes digital display monitor, 'DC' on/off switch, wall mounting bracket, PV fused string combiner (15A fuses supplied with package), ground fault protection, corrosion resistant aluminum enclosure.
- These Inverters are thermally regulated fan cooled, high efficiency and 10 year standard warranty (extended warranties available). Fronius inverters rated to 122°F, SMA rated to 113°F
- Data communication, monitoring and collection options are available for both



Unirac SolarMount

Mounting System

- Support Structure - Unirac® SolarMount®.
- Unirac SolarMount provides a low profile installation on any roof type. The anodized aluminum flush-mount rail system with stainless steel fasteners. 10 year warranty designed for 90 mph and wind loads. Supplied in rail lengths of 132" (3 modules) and 168" (4 modules) this modularity enables flexibility for landscape or portrait arrangements of roof top layouts.



ACE PV Wire Pull Box

ACE PV Wire Pull Box

- Outdoor electrical enclosure, non-metallic, UL listed 1741
- Mounting bracket allows for flexible attachments options to most structures.
- Facilities transition from open wiring to conduit.
- Includes terminal blocks.



PV Wiring Array



PV Module Ground Kit



PV Wire Clips



Rail Grounding Lug



DC Switch



AC Disconnect Switch



AC kWh Meter & Box



NEC Equipment Labels



Owner's Manual

System Components

Design Services

Site engineered single and three line drawings provided for your specific installations. Site plan, roof load calculations, electrical diagrams, mechanical and structural details are optional (specify - E suffix)

PV Array Wiring and PV String

All interconnect wiring from every PV string to collection box is supplied as #10AWG PV Wire UL4703, with Tyco® male/female locking connectors in 50' & 75' lengths.

PV Grounding

Tyco grounding lugs and fasteners for equipment ground connections of all PV frames and structural rails included with #10 AWG copper wire. Wire management includes cable ties & stainless steel wire clips.

DC-AC Disconnect

Service safety disconnect switches are outdoor rated NEMA 3R, UL listed, nonfused are included with externally operable lockable handle as required by NEC. The PV-DC disconnect is heavy duty 3-pole rated 600V - 19.2 (ISC) per pole. The AC disconnect is general duty 240V, NEMA 3R rated - 30A, 60A or 100A, depending on size of inverter system.

AC kWh Meter

Included in package is a self contained solid state kilowatt-hour meter with digital display, form 2S 240V, 3 wire class 200. Meter is designed in accordance with UL, IEEE, and ANSI standards for utility meters, 0.2% accuracy. Non-glass construction eliminates damage. Meter socket box included, 125A UL listed.

Equipment Labeling

Permanent labels are supplied in each package tailored with the appropriate markings and ratings as required by NEC 609.53 and local utilities. These labels are black engraved plastic with adhesive backing, tamper-proof, and non-fading. Warning labels are red.

Installation & Owners Manual

A complete and comprehensive system manual CD is provided in every shipment. Includes wiring diagrams, instructions, warranty statements.