EPEC SOLUTIONS, INC.

Contact:
Drew Vermillion
drewvermillion@rebossinc.com
919.641.0941

2025

Product Portfolio

Solar & EV Charging

Products

480–600VAC BoS Family

Compact in Size, Powerful in Action

QUALIFIES FOR MADE IN AMERICA & IRS DOMESTIC CONTENT TAX CREDITS

UL LISTED

MAIN BREAKER FEEDERS:
- 30 (150A/250A)
- 20 (400/600A)
- 6 (800/1000A)

800–4000A

- Switchboard 800–4000A
  (AC combiner or recombiner)
- Main breaker, LSIG, AERMS, main lug option
  (up to 100kAIC @480 / 65kAIC @600)
- Direct bus or cable connection to MV transformer
- Compact, 90"×60"×36"
- New 48" depth available for ease of of cabling
- No nuisance tripping, electronic trip breakers on main & all feeders
- Reduce cable sizing, 100% rated MCCBs
- NEMA 3R (thermally engineered)
- UL891 Certified

400–1000A

- MLO output with up to 8 (150A/250A) feeders
- NEMA 3R or NEMA 4 (rooftop)
- UL891 construction / UL508A certified

480–600VAC BoS Family

Compact in Size, Powerful in Action

QUALIFIES FOR MADE IN AMERICA & IRS DOMESTIC CONTENT TAX CREDITS

UL LISTED

MAIN BREAKER & UP TO 15 (150A/250A) OR UP TO 4 (400A/600A) FEEDERS (AC COMBINER)

400-1200A Freestanding UL-891 Switchboard

- Main breaker, LSIG, AERMS, main lug option
  (up to 65kAIC @480 / 65kAIC @600)
- No nuisance tripping, electronic trip breakers on main & all feeders
- Reduce cable sizing, 100% rated MCCBs
- Compact, 80"×42"×24" (padmount)
- Cable connection to MV transformer
- NEMA 3R
- UL891 certified

400-1200A Rackmount Combiner

- Main breaker, LSIG, AERMS option
  (up to 50kAIC @480 / 50kAIC @600)
- No nuisance tripping, electronic trip breakers on main & all feeders
- Reduce cable sizing, 100% rated MCCBs
- Compact, 60"×36"×18" (rackmount)
- Cable connection to MV transformer
- NEMA 3R
- UL891 construction / UL508A certified

MAIN BREAKER & UP TO 10 (150A/250A) (AC COMBINER)

660-800VAC BoS Family

Industry First Solar Solutions

QUALIFIES FOR MADE IN AMERICA & IRS DOMESTIC CONTENT TAX CREDITS

UL LISTED

800-4000A

- UL 891 certified SWBD 660-800VAC
- Direct or cable connection to MV transformer
- No nuisance tripping, electronic trip MCCBs on main & all feeders
- Reduce cable sizing, 100% rated MCCBs
- Compact, 90" × 60" × 36"
- New 48" depth available for for ease of of cabling

MAIN LUG ONLY:
MAX 14 FEEDERS

MAIN BREAKER OR MAIN LUG ONLY 1200A UP TO 3000A, LSIG, AERMS (UP TO 50KAIC @ 800VAC)

MAIN BREAKER:
MAX 20 FEEDERS

Local AC Inverter Disconnects

- Designed for local disconnect of inverters feeding switchboard
- NEMA 3R
- UL508A certified

NON-FUSED STYLE DISCONNECT, 400A

MCCB STYLE DISCONNECT, 300A, ETU, 100% RATED

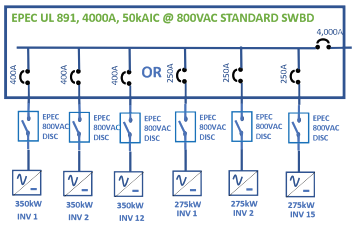
660-800VAC BoS Equipment

Most Comprehensive Offering in the Industry

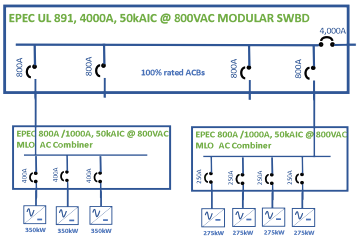
QUALIFIES FOR MADE IN AMERICA & IRS DOMESTIC CONTENT TAX CREDITS

UL LISTED

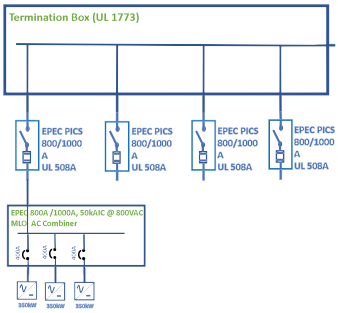
OPTION 1: MAIN SWBD / INVERTERS IN ARRAY WITH LOCAL DISCONNECT



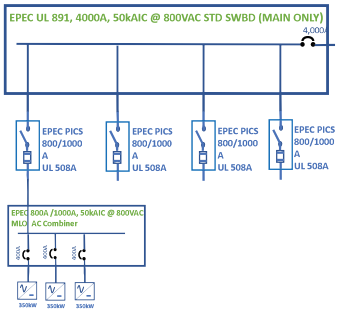
OPTION 2: MAIN SWBD (AC RECOMBINER) / FIELD AC COMBINER



OPTION 3: TERMINATION BOX / 800A DISCONNECT / AC COMBINER BOX

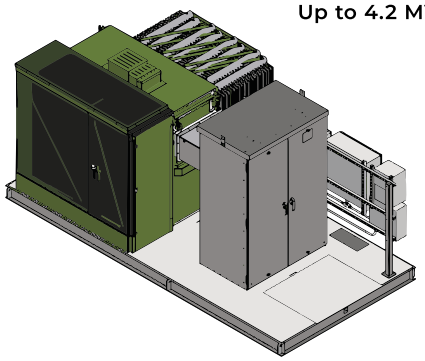


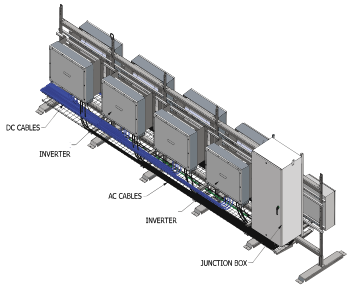
OPTION 4: MAIN SWBD ONLY / 800A DISCONNECT / AC COMBINER BOX



Integrated Skid / Rack Combinations

Up to 4.2 MVA Block Size





Custom Integrated Skids for Solar, BESS, and EV

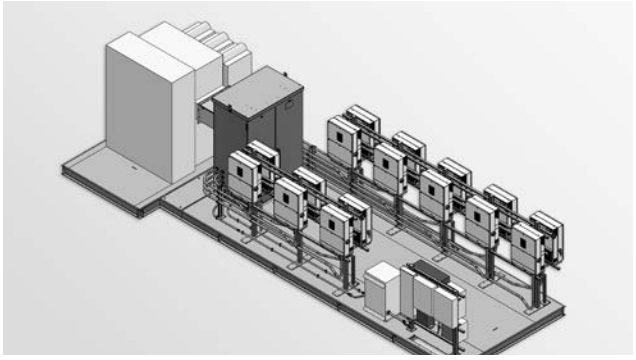
Fully-Engineered Power Solutions

QUALIFIES FOR MADE IN AMERICA & IRS DOMESTIC CONTENT TAX CREDITS

- Fully factory integrated: medium voltage transformer, switchboard, inverters, aux power, SCADA
- Customer specific or standard designs
- Full 3D design
- Structural calculations (wind, snow, reaction loads) PE stamp available

PV UNIT SUBTATION

CENTRAL INVERTER STATION

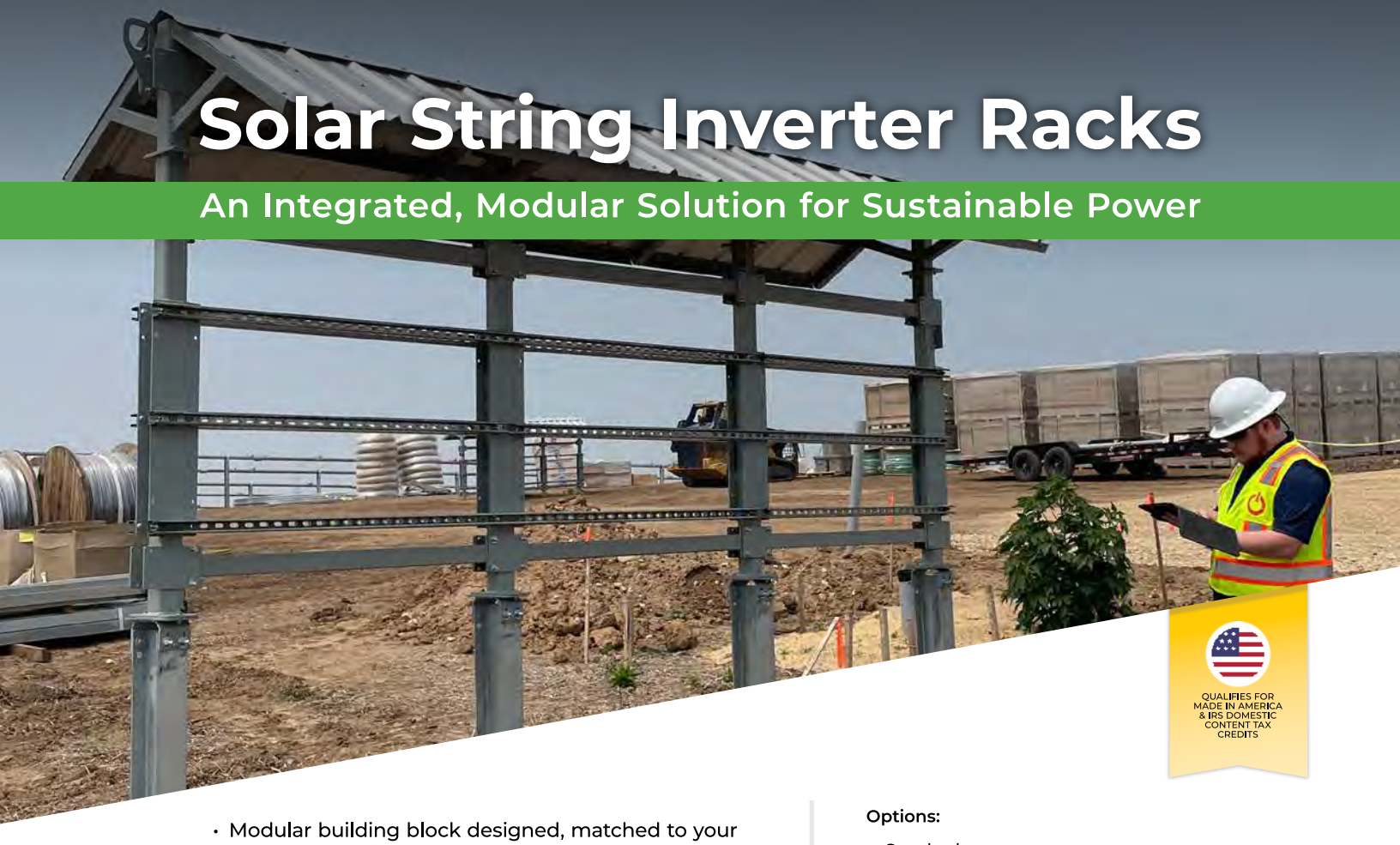


VIRTUAL CENTRAL 3D MODEL

VIRTUAL CENTRAL CONSTRUCTION PHASE

Solar String Inverter Racks

An Integrated, Modular Solution for Sustainable Power



QUALIFIES FOR MADE IN AMERICA & IRS DOMESTIC CONTENT TAX CREDITS

- Modular building block designed, matched to your specific quantity and inverter brand requirements
- Engineered and certified for worst case North American wind & snow loads
- Powder coated carbon steel for long-term performance
- Complies with IRS domestic content requirements, all USA steel and manufacturing

Options:

- Sunshade
- Custom brackets as required for inverter mounting
- Cable tray
- Flexible installation
- Foot plate mounting (for gravel or concrete base)
- Pile mounting adaptor

Flexible Integration Options

Fully Integrated
Inverters mounted, cabled & tested at our factory

Partially Integrated
Inverters mounted at our facility

Assembled Only
Shipped for customer installation & integration in the field

EV Charging

Switchboards, Racks, and Skid Solutions

QUALIFIES FOR MADE IN AMERICA & IRS DOMESTIC CONTENT TAX CREDITS

UL LISTED

400–1200A PADMOUNT SWBD

1200–4000A SWBD

Switchboards

1200A-4000A	400A-1200A
NEMA 3R, UL 891 SWBD for EV Charging	
Compact 90”x60”36” footprint	Compact 80”x42”24” footprint
Main breaker, LSIG, AERMS, metering & control options	
100kAIC @ 480VAC	65kAIC @ 480VAC
All electronic trip MCCBs	
Thermally engineered switchboard	
Cable or bus connection to MV Transformer	Cable connection to MV Transformer
Available feeder frame sizes: 150/250/400/600/800/1000	Available feeder frame sizes: 150/250/400/600

Integrated Charging Skid

- Packaged LV substation for EV Charging
- MV transformer + SWBD + metering / communications all factory integrated
- Advantages of factory integration:
  - Quality: skids are engineered, assembled and inspected in a factory environment
  - Efficiency: pre-build equipment in a environmentally controlled environment
  - Speed: less field construction time means more projects completed each year

Auxiliary Power and Grounding Transformers

Complete the Package

QUALIFIES FOR MADE IN AMERICA & IRS DOMESTIC CONTENT TAX CREDITS

Auxiliary Power Centers

LV 3kVA-300kVA	MV
Primary voltages: 480 / 600 / 800VAC single or three phase	Primary voltages: up to 34.5kV single or three phase
Secondary voltages: 120/240 single phase; 208/480 three phase	
Dual secondary options	
NEMA 3R, rack or padmount	NEMA 3R, padmount
Secondary panelboard / load centers	

LV / 65KVA POWER CENTER, 600:480 3P & 600:120 1P DUAL SECONDARY

LV / 30KVA POWER CENTER 600:480 3P

MV / 112.5KVA POWER CENTER 13,200:415/240 3P

LV / 20KVA POWER CENTER 600:120/240 1P

LV & MV Grounding Transformers and Reactors

- 480VAC up to 34.5kV
- Single phase & three phase, 1kVA up to 4500kVA
- Full 3D design
- NEMA 3R padmount

NGR: 6.25 KVAR, 10 OHMS

NGR: 30 KVAR, 15KV CLASS

NEW PRODUCT

Modular SWBD

(estimated to ship 4Q 2024)

- Designed from ground up for BESS / Solar / EV Charging Applications
- Multiple main sections (M-T-M, GenSET), 5000A (6000A air cooled)
- Direct bus connection or cable connection to MVT
- Multiple feeder sections with feeder sizes up to 2500A
- NEMA 3R, multi-section design
- Seismic ratings

ASK OUR SALES TEAM FOR DETAILS

QUALIFIES FOR MADE IN AMERICA & IRS DOMESTIC CONTENT TAX CREDITS

UL LISTED

EPEC SOLUTIONS, INC.

AC LV SWBD - 1200-1600A, 480-800VAC

UL 891 Certified SWBD's for Solar / BESS Applications

Multi-section SWBD platform designed for AC collection of Solar or distribution / integration of BESS projects. Thermally engineered for demanding outdoor applications, features up to 6000A bus and 5000A (6000A air cooled) main breaker. Other features include: Multiple mains, feeder sizes from 15A to 2500A, M-T-M control sections, generator quick connect options.

Product Details

- 480VAC, 600VAC, 800VAC, 3P3W or 3P4W
- UL / NEMA 1 or 3R
- Main breaker ranges: 1200A – 5000A (6000A air cooled), MLO up to 6000A, fixed or draw out
- Single ended or double ended (M-M or M-T-M)
- Feeder ranges ACB: 1200A, 1600A, 2000A, 2500A, fixed or draw out
- Feeder ranges MCCB: 150AF, 250AF, 400AF, 600AF, 800AF, 1000AF
- Feeder trip type: Thermal Mag or Electronic Trip
- Interrupt Ratings:
  - 100kAIC @ 480VAC
  - 65kAIC @ 600VAC
  - 50kAIC @ 800VAC
- Full front access, incoming / outgoing bottom or top entry
- Direct bus / busway option (side) for main / ACB feeder
- Control section M-T-M control schemes

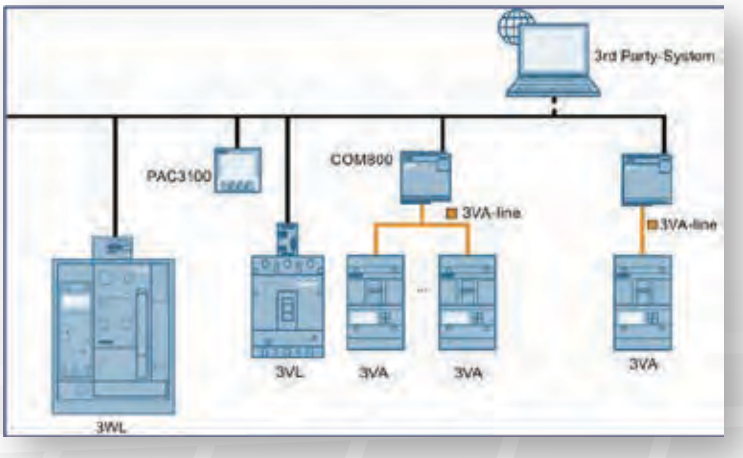
Pictured above: UL 891 / NEMA 3R, 480 / 800VAC, 6000A SWBD, single ended, with: cable input section, 5000A main, ACB feeder section, MCCB feeder section & SEL control section

Intelligence for Diagnostics, Metering, & Switching

Our SWBD's utilize Siemens' state-of-the-art power (3WA) and molded case (3VA6) circuit breakers. Full metering and diagnostics for each circuit is available from advanced trip units. Information is easily made available to via Modbus TCP or other ethernet / PLC protocol. If advanced communication is not required standard trip units are available.

Ample Power Capacity

Our 6000A Switchboard delivers the power capacity required, for Solar / BESS requirement. With fault current ratings of 100/65kAIC at 480/600V (supports 4500/3500kVA sized MV Transformers at 480/600VAC, respectively.)



Contact: Drew Vermillion 919.641.0941
drewvermillion@rebossinc.com

QUALIFIES FOR MADE IN AMERICA & IRS DOMESTIC CONTENT TAX CREDITS

UL LISTED

EPEC SOLUTIONS, INC.

AC LV SWBD - 1200-1600A, 480-800VAC

UL 891 Certified SWBD's for Solar / BESS Applications

Pictured above: UL 891 / NEMA 3R, 480 / 800VAC, 6000A SWBD, double ended, with: cable input section, 5000A main, ACB feeder section, MCCB feeder, 2nd 5000A main, 2nd cable input section & SEL control section.

Enhanced Safety Features
Safety is our top priority. Our 6000A SWBD comes with state-of-the-art safety features, including advanced circuit protection (AERMS per NEC 240.87) and fault detection capabilities. This ensures your equipment and personal are both safe.

Superior Reliability
EPEC is a proven leader in the design and build of LV AC SWBD's in the demanding solar, energy storage, and EV charging industries. We understand that downtime is not an option for your facility. That's why our 6000A Switchboard is designed for maximum reliability. It's robust construction and advanced engineering ensure consistent performance and minimal maintenance.

Future-Proof Your Solar / BESS Application
Our 6000A SWBD is not just a product, it's long-term investment. Its scalable design allows for easy upgrades and expansions, ensuring it can meet the needs of your plant both now and in the future. Designed on the newest version of Siemens' circuit breaker technology, your equipment will stand up to the test of time with ease.

Pictured above: EPEC N3R "solar specific" SWBD. EPEC SWBD's are utilized in over 1 gigawatt of solar installations.

Contact: Drew Vermillion 919.641.0941
drewvermillion@rebossinc.com

EPEC
SOLUTIONS, INC.

Contact: Drew Vermillion
drewvermillion@rebossinc.com
919.641.0941

info@epecsolutionsinc.com
epecsolutionsinc.com