



800VAC LT DISTRIBUTION PANELS



800VAC

LV Combiner Panel Boards

VOLTAGE CLASS	INTERRUPTING RATING	CONTINUOUS CURRENT RATING
800Vac wye nominal voltage	Up to 65 KA	Up to 400 A

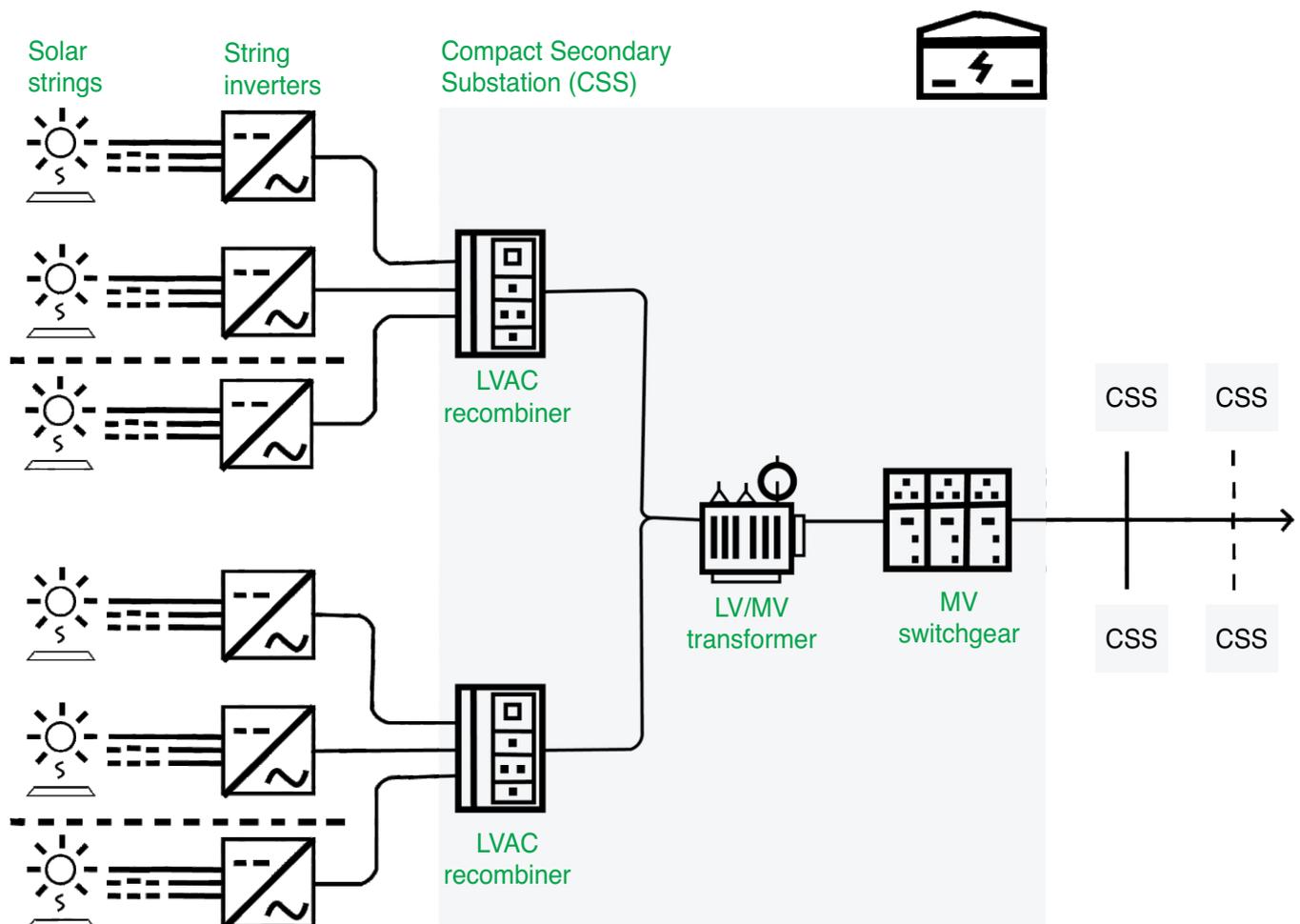
Core features

- ⌚ 800VAC wye nominal voltage
- ⌚ Maximum 880Y/509Vac, 3- phase 4-wire
- ⌚ Interrupting rating up to 65kA
- ⌚ Up to 4000A maximum main lugs
- ⌚ Customizable configurations for AC fusible switches
- ⌚ Component integration can include metering, relays, dry type transformers, Visi-switches, NH solar fuse links and more
- ⌚ Offers close-coupling to Eaton liquid-filled transformers for optimal power
- ⌚ Suitable for pour-in concrete pad installation; optional skid mounting also available
- ⌚ Available enclosures NEMA 1, 3R
- ⌚ Enhanced sustainability
- ⌚ Reduced Balance of System cost (e.g. AC side cabling)
- ⌚ Higher power obtainable in the same enclosure (~30%) while maintaining the same current (fewer inverters per MW)
- ⌚ 40-50 % savings on AC cables and components compared to 400VAC string inverters
- ⌚ Typically used on a large Commercial & Industrial scale (P>500 kW) where a dedicated MV/LV transformer is required by the design in any case.

AC Recoiners in String inverter architecture

Fundamentals, main components & functionalities

- ⚡ The power generated by solar strings and converted to AC by each string inverter is collected by the AC Re-combiner. This is a switchboard where several string Inverters are placed in parallel by the relative feeder.
- ⚡ Every feeder requires adequate switching and protection against overcurrents



AC recombiner components

- ⚡ AC switching and protection devices
- ⚡ Insulation monitoring device
- ⚡ Surge protection device for direct lightning
- ⚡ Auxiliary circuits.

Optional components for AC recombiners

- ⚡ Arc flash mitigation: Active, Passive or Preventive solutions
- ⚡ Network analyzer
- ⚡ Temperature monitoring relay

**RANGES OF
800VAC SOLAR MAIN
LT PANELS**



⚡ Elite Series

⚡ Smart Series

⚡ G-Elite Series

⚡ G-Smart Series



Elite Series

- ⚡ ON/OFF/TRIP Indication for all MCCB/ACB
- ⚡ SPD Type-2 with Backup Fuse
- ⚡ Better Temperature Compensation

G-Elite Series

- ⚡ ON/OFF/TRIP Indication for all MCCB/ACB
- ⚡ SPD Type-2 with Backup Fuse
- ⚡ Better Temperature Compensation
- ⚡ Auxilary Transformer
- ⚡ Online UPS with Battery Backup
- ⚡ LDB
- ⚡ UPS DB
- ⚡ Better Temperature Compensation
- ⚡ SPD Type-2 with Backup Fuse
- ⚡ ON/OFF/TRIP Indication for all MCCB/ACB



Smart Series



- ⚡ ON/OFF/TRIP Indication for all MCCB/ACB
- ⚡ SPD Type-2 with Backup Fuse
- ⚡ Better Temperature Compensation
- ⚡ Auxiliary Transformer
- ⚡ PLC with Touch Screen HMI to monitor all the Breakers and Inverters generation
- ⚡ Remote Monitoring Free
- ⚡ Better Temperature Compensation
- ⚡ ON/OFF/TRIP Indication for all MCCB/ACB
- ⚡ SPD Type-1+2 with Backup Fuse

G-smart Series

- ⚡ ON/OFF/TRIP Indication for all MCCB/ACB
- ⚡ SPD Type-2 with Backup Fuse
- ⚡ Better Temperature Compensation
- ⚡ Auxiliary Transformer
- ⚡ PLC with Touch Screen HMI to monitor all the Breakers and Inverters generation
- ⚡ Remote Monitoring Free
- ⚡ Online UPS with Battery Backup
- ⚡ LDB
- ⚡ UPS DB
- ⚡ SPD Type-1+2 with Backup Fuse
- ⚡ Better Temperature Compensation
- ⚡ ON/OFF/TRIP Indication for all MCCB/ACB



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