

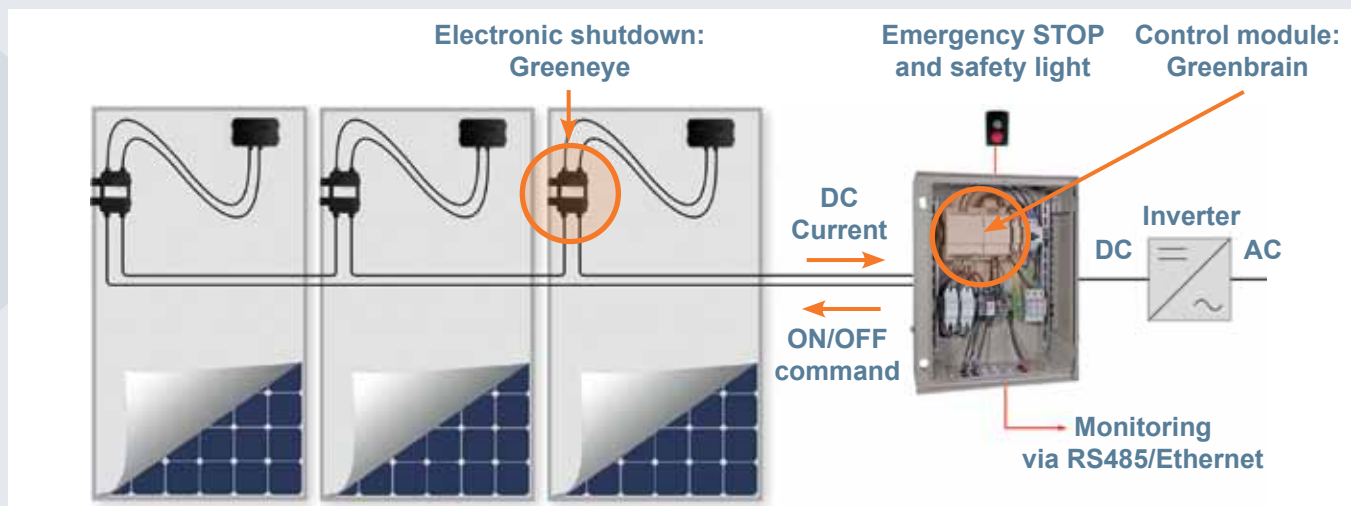


# Greeneye + Greenbrain System

## Total safety for photovoltaic installations

**Protection system for workers, electricians, and firefighters against electrocution hazards in PV installations**

- Individual shutdown of each PV module in case of emergency: 0 Volts & 0 Amps
- Failsafe safety system with 25 year warranty
- Emergency shut-down button and safety light control
- Control input from DC arc fault detector
- Control of external electro-mechanical switch to isolate PV strings from inverter if needed
- Power Line Communication to control power on and shutdown of PV modules
- Easy installation: plug & play
- Fulfill new UTE, VDE and 2014 NEC requirements



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# PV Safety System Features

## Electronic shutdown of PV modules: Greeneye

Greeneye is available in two configurations; 1) integrated directly into the junction box on the back of the PV module or 2) as an add-on, field installable junction box, easily connected to the PV module.

In the integrated version, Mersen has partnered with Hüber+Sühner, well known for high-quality electrical and optical connectors, to deliver a Mersen branded modular PV junction box.

Greeneye is a failsafe safety system designed according to SIL2 safety standard. Without an activation signal, each Greeneye module is inactive and the output voltage and current of each PV module is zero.

Technical data	
Maximum system voltage	1 000 V DC (i.e 24 PV modules)
Max. module voltage (Voc)	80 V DC
Max. string current	12.5 A (per string)
Package protection class	IP 67
Safety level	« Safety Integrity Level » Level 2

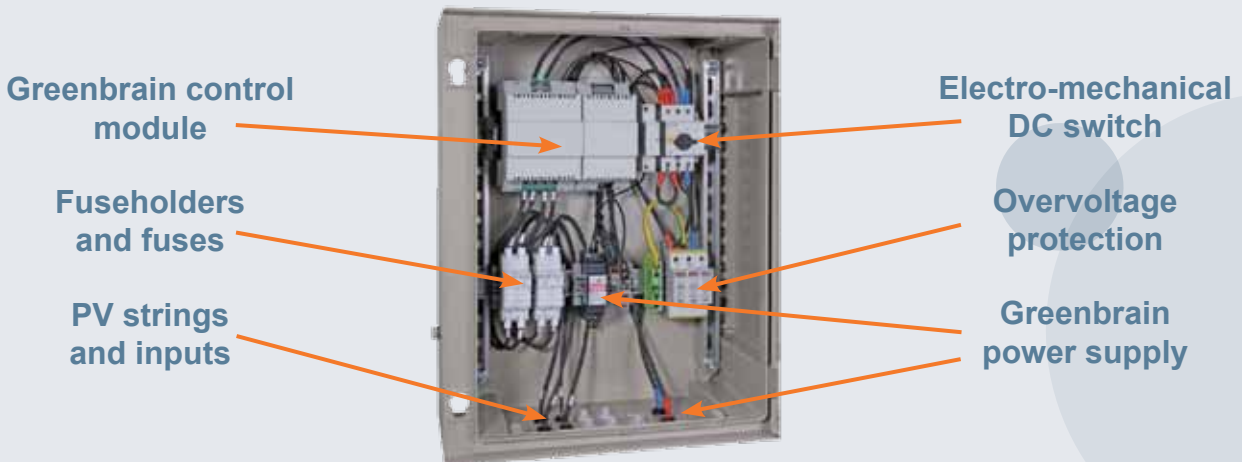


## Central control system: Greenbrain

Greenbrain performs the control of the Greeneye modules : activation and shut-down of each PV module in case of emergency. Greenbrain can be installed within the PV string combiner box or in the inverter.

An emergency shutdown button connected to the Greenbrain module controls the switch-off of each Greeneye module and, if necessary (optional) an external electro-mechanical switch to isolate the PV strings from the inverter. As a precaution, a safety light will indicate if a voltage greater than 60V DC is still present on any string.

Monitoring of each PV module is available as an option. It communicates over DC power line and Ethernet/RS485 link.



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