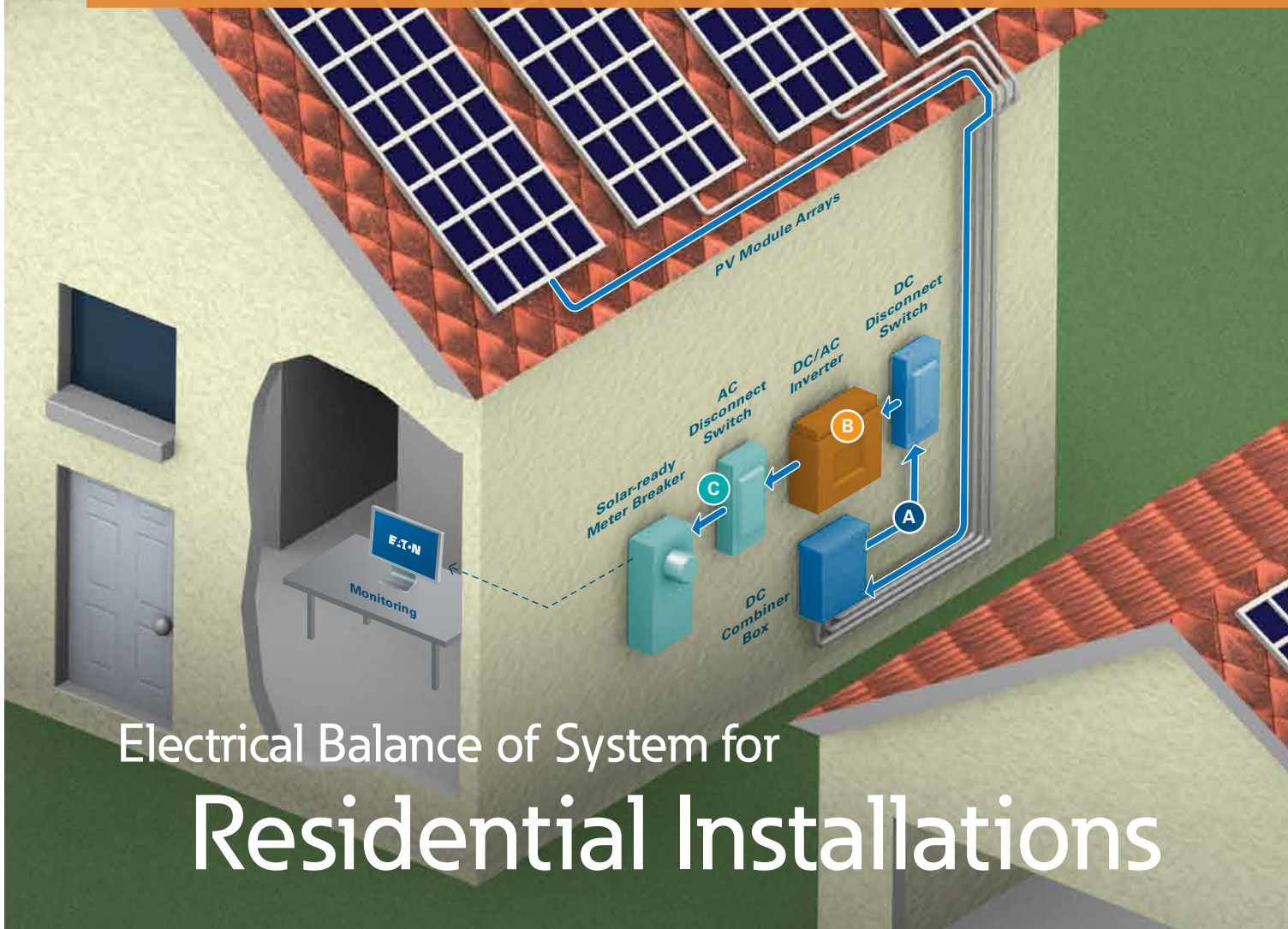


Connecting the  
Power of the Sun

Electrical Balance of System  
(BOS) for Residential Installations



# Electrical Balance of System for Residential Installations

Our roots in the electrical business run deep. Eaton is a global technology leader in electrical components and systems for power quality, distribution and control. Our industry leading products and services are designed to deliver:

- Reliability
- Energy efficiency
- Safety
- Cost effectiveness

## Solar-ready meter breaker

Eaton's solar-ready meter breaker can be applied as a system component of a complete photovoltaic electrical system. This solution complies with the 2008 National Electric Code 690.64, which identifies the acceptable methods for Solar Photovoltaic systems.



## EATON'S ELECTRICAL BALANCE OF SYSTEM

- A** DC switching and protection
- B** Solar inverters
- C** AC switching and protection

# EATON

Powering Business Worldwide

# Features and Benefits:

- 225A Rated Copper Bussing Maximizes Solar Source up to 70A.
- 200A and 225A Main available factory installed, which provides additional flexibility in service sizing.
- Commercial Grade 25KA Rated Main Breaker ensures many years of safe and dependable service.
- Provision for Plug-In Hybrid Electrical Vehicle Receptacle, which is an Energy Savings provision that allows for current/future vehicle charging station.
- Optional Surge Suppression Kits will protect all the microprocessor based sensitive equipment loads, such as Range Tops, Central Air / Furnace, and other critical devices.
- Optional GFCI Integral Receptacle Kits will constantly monitor electricity flowing in a circuit, to sense any loss of current. If the current flowing through the circuit differs by a small amount from that returning, the GFCI quickly switches off power to that circuit.
- 7 " Design – Ideal for Stucco homes.
- Endwall Knockouts are easily accessible for future wiring without damaging Stucco.
- Outboard split neutral and Raised Interior with built in wire way for easy wiring.
- 10 Year Warranty.
- For customer support contact Eaton's Technical Resource Center at **1-877-ETN-CARE**.
- For additional information or to place an order, contact your local Eaton representative or visit us at [www.eaton.com](http://www.eaton.com).

Part Number	Main Breaker Amperage	Bussing Amperage	Mounting	Service Design	Circuits	Height	Width	Depth
MBED3042B200PV	200	225	semi-flush	UG	30/42	42.5	14.19	7
MBED3042B225PV	225	225	semi-flush	UG	30/42	42.5	14.19	7
CMBE24B200TSR	200	225	surface	OH	24	32.5	14.43	4.93
CMBE24B200TFR	200	225	semi-flush	OH	24	32.5	14.43	4.93
CMBE3242B200BS	200	225	surface	UG	32/42	46.8	14.4	5.3
CMBE3242B200BF	200	225	semi-flush	UG	32/42	46.8	14.4	5.3
CG403242SH	320/400	PV input rated up to 200A via secondary main	surface	UG	32/42	44.1	30.1	7.5

## Photovoltaic Sizing Guidelines Per NEC 690.64

690.64(B)(2) Allows 120% loading of a panelboard bus for commercial as well as residential use. When bus rating is exceeded, backed overcurrent device must be located at opposite end from normal supply. See 690.64(B)(7).

Panel Main Breaker	Standard Bus Rating	Maximum Total Rating ALL PV Backfed Mains	Maximum Rating of Panel Mains + PV Mains**
200 Amp	200 Amp	40 Amp	240 Amp
200 Amp	225 Amp	70 Amp	270 Amp
400 Amp	400 Amp	80 Amp	480 Amp
**NEC 690.64 (B)(1) exception			