



EG4[®] GRID BOSS

MICRO-GRID INTERCONNECTION DEVICE (MID)

The EG4 Grid Boss Micro-Grid Interconnection Device can replace several components in an Energy Storage System (ESS) with a single box. The Point of Common Connection, Back-fed Breakers, Feeder Taps, Feeder Tap Breakers, Supply Side Taps & Breakers, Transfer Switches, and Dedicated Combiner Panels for Grid-In, Grid-Out, and Gen-In can all be replaced with this one innovative unit. The MID becomes the Service Entrance Equipment in conjunction with the utility meter providing one Point of Connection for Utility, Hybrid Inverters, Generator, Loads, Smart Loads, and AC Coupled Inverters.

200A SERVICE
ENTRANCE*

4 CONFIGURABLE
SMART PORTS

INTEGRATED
GENERATOR SUPPORT

CENTRALIZED ESS CONTROL: Provides one point of connection for Utility, Hybrid Inverters, Generator, Loads, Smart Loads & AC Coupled Inverters.

REDUCED ESS COMPLEXITY: Replaces up to 10 components with one unit including point of common connection, back fed breakers, feeder taps, feeder tap breakers, supply side taps & breakers, transfer switches, and dedicated combiner panels for Grid-In, Load/EPS, and Gen-In.

SERVICE ENTRANCE RATED: 200 Amp service entrance with a 22 kAIC main breaker* becomes the Service Entrance Equipment in conjunction with the utility meter

REMOTE MONITORING: Connect to the MID for remote monitoring, configuring and firmware updates via mobile phone app or monitoring system website.

CONFIGURABLE BREAKERS: One generator up to 125A, 3 hybrid inverters up to 90A, 4 smart ports ranging from 60A to 125A.

SMART PORTS: Load Shedding disconnects loads on low battery voltage and reconnects on high voltage. Power Shedding connects loads on Full SOC and PV current flow and disconnects loads on low SOC or loss of PV.

T E C H N I C A L S P E C I F I C A T I O N S

GRID

NOMINAL AC VOLTAGE	120/240VAC (L1/L2/N required)
FREQUENCY	60 Hz
MAXIMUM CURRENT	200A
ADJUSTABLE DISPLACEMENT FACTOR RANGE	+/-0.8

GENERATOR

NOMINAL VOLTAGE	120/240VAC (L1/L2/N required)
FREQUENCY	60 Hz
MAXIMUM CURRENT	125A

NON-BACKUP

NOMINAL VOLTAGE	120/240VAC (L1/L2/N required)
FREQUENCY	60Hz
MAXIMUM CURRENT	200A

BACKUP

NOMINAL VOLTAGE	120/240VAC (L1/L2/N required)
FREQUENCY	60 Hz
MAXIMUM CURRENT	200A

HYBRID

NUMBER OF PORTS	3
NOMINAL VOLTAGE	120/240VAC (L1/L2/N required)
FREQUENCY	60 HZ
MAXIMUM CURRENT PER PORT	90A
SUPPORTED EG4® INVERTERS	12kPV, 18kPV, FlexBOSS21

SMART PORTS

NUMBER OF PORTS	4
NOMINAL VOLTAGE	120/240VAC (L1/L2/N required)
FREQUENCY	60 Hz
MAXIMUM CURRENT PER PORT	1: 125A 2: 80A 3: 60A 4: 60A

GENERAL DATA

PRODUCT DIMENSIONS (H×W×D)	31.5×19.7×7 in (800×500×178 mm)
UNIT WEIGHT	55 lbs. (23 kg)
RELATIVE HUMIDITY	0 – 100%
OPERATING ALTITUDE	<2000 m (<6561 ft)
OPERATING AMBIENT TEMPERATURE RANGE	-40°F – 140°F (-40°C – 60°C)
NT-SCCR	22KA*
COMMUNICATION INTERFACE	RS485/Wi-Fi/CAN
INTERNAL BUS RATING	350A
STANDARD WARRANTY	10-year standard warranty
OUTDOOR RATING	NEMA 3R

STANDARDS AND CERTIFICATIONS

UL1741, UL67, UL869A*
FCC PART 15, CLASS B

*When used with the Eaton 200A main breaker (model number CSR25K).