



Accessories

Model	Description
GS-SBUS	Shunt bus to connect three shunts together within the GSLC
STBB-BLACK	Bus bar with black insulators and mounting screws
STBB-RED	Bus bar with red insulators and mounting screws
STBB-WHITE	Bus bar with white insulators and mounting screws

Panel Mount Breaker Model	Current Rating	Voltage Rating	Branch Circuit	Terminals	Width
PNL-50D-AC-120/240	50 amp (each of 2 poles)	120/240VAC	5k AIC	1/4" stud	1.5" (39 mm)

GS-IOB-120/240VAC Input-Output Bypass Assembly

Description: Field-installable kit for bypassing the AC input to the AC output for inverter maintenance or installation. Also provides overcurrent protection. Intended for use with single inverter installations.

Includes: Four 50A 120/240VAC dual pole panel mount breakers, sliding bypass interlock plate, three STBB-BLACK and three STBB-RED terminal bus bars, wire and hardware kit.

System Rating	Bypass Breaker	Input Breakers	Output Breaker
120/240VAC @ 50A	Dual pole @ 50A	175A, 2/0 AWG DC cable 15 inches (38 cm) long with ring terminals	Dual pole @ 50A

Home (power) on the range

Net-zero renewable energy system powering cattle ranch in Southern California.

The firm Energy Options of Lancaster, California (north of Los Angeles) was given a design and installation challenge that most companies dream of: design and build a net-zero renewable energy system with 100% battery backup big enough to run a cattle ranch in southern California where there were three independent utility services on the same property— and where the existing centralized back-up power plant was hundreds of feet away from any of those services. Adding to the system's complexity, 13 additional grid-tied inverters needed to be AC-coupled for battery charging in off-grid mode.

Twenty OutBack Radians in a 160kW four-zone configuration were the perfect solution, through their high output capacity, auxiliary relays, and highly programmable MATE3 Controller. When the power goes out, the OutBack components run the show, using the combined capacity of a 91kW of PV/ solar array, a 10kW wind turbine, and two 100kW generators to charge an 11 ton, 6,750 Amp hour battery bank—the ultimate combination of system-management brains and power-conversion brawn.

