

EnerCenius DC

Ruggedized Battery Charger & DC Supply

120 & 240 Volts Nominal, 12 to 400+ Amps



More Power. Less Space. Environmentally Hardened.

Hardened powertrain: Small, energy efficient and rugged Fast responding, pure DC: Delivers ripple-free output even without battery Small size & light weight: Saves floor space and money Dirt and dust protected: Electronics stay cool and clean even in dirty environments Industrial electrical ratings: 480 VAC 3-phase input; transient & surge protected Remote communications: Optional Modbus and DNP3 PIP specification compliant: Includes optional high current alarm relays





Reliable, high power DC in less space.

EnerGenius DC is a family of modular, high-powered chargers that are purpose-built for industrial and utility environments. Standard configurations range from 25 to 400 amps at 120 or 240 volts DC nominal. Larger custom systems are also available.

EnerGenius DC outperforms line frequency chargers such as SCR: smaller size, lighter weight, higher efficiency, easier field service, lower ripple and faster-responding DC output.

Unlike other switchmode chargers derived from telecommunications power supplies, EnerGenius DC features innovative layered defenses against dirt and electrical transients that enable operation in harsh industrial and utility environments.

State-of-the-art features

Native 3-phase, 380-480 VAC input

Native 3-phase, 3-wire input enables operation on common 380-480 VAC without the stepdown transformer other switchmode chargers need. Operation down to 188 volts or on a single phase continues at reduced output. 95% efficiency and unity power factor consume up to 30% less AC current than conventional chargers of similar output.



Flexible Configurations

EnerGenius DC employs multiple rectifier modules that enable higher current output or internal redundancy.

- 7 kW compact/portable charger employs one rectifier
- 14 kW wallbox employs either one or two rectifiers. Field power upgrade is possible.
- 56 kW cabinet system accommodates up to eight hot-swappable rectifiers. Dual AC and/or DC buses are available for increased redundancy and fault tolerance.
- Systems >56 kW are also available. Contact factory.

Protected from electromagnetic threats & dirt

Charger electronics are fully sealed in Faraday cages, providing protection from electromagnetic fields and dirt. Innovative Forced Conduction[™] cooling employs redundant fans and easily serviced air filtration to eliminate the problems of dirt-induced failures common to all prior forced cooled designs.



Modular Design and Redundancy

N+1 redundancy is possible in either the 14 kW or 56 kW systems by installing one more rectifier than is required to meet the base load. Rectifiers are isolated from each other.

Output voltage control is maintained by the rectifiers. If communication to the control panel is lost, voltage output is still maintained.

Additional redundancy in the 56 kW cabinet is obtained by specifying independent, dual, 3-phase AC feeds. Dual A/B DC bus output is optional.

Optional dual AC feeds and dual DC bus.





7 kW Compact/Portable charger

38 lbs. (17.2 kg)

Choose 7 kW compact/portable charger if your DC requirement is 120 V and ≤50 A or 240 V and ≤25 A



Employs one rectifier rated up to 120 V, 50 A or 240 V, 25 A nominal output. Output voltage is keypad adjustable from zero volts up to the charger's maximum, making it ideal for temporary charging. Carrying handle is optional.

14 kW Wallbox

85 lbs. (38.6 kg) maximum

Choose 14 kW wallbox if your DC requirement is 120 V and \leq 100 A or 240 V and \leq 50 A



Employs either one or two rectifiers for output up to 120 V, 100 A or 240 V, 50 A nominal. Field power upgrade is possible.

56 kW Standard Cabinet

284 lbs. (128.8 kg) cabinet + 25 lbs. (11.3 kg) per installed rectifier module maximum

Choose 56 kW standard cabinet if your DC requirement is 120 V and \leq 400 A or 240 V and \leq 200 A



Accommodates up to eight hot-swappable rectifiers rated 120 V, 400 A or 240 V, 200 A nominal. Purchase to system capacity and add power modules as needed. Dual AC and/or DC buses available for increased redundancy and fault tolerance.



EnerGenius DC Chargers and Systems

| | Sp | ecifications: End | erGenius DC | | | | | | | | | |
|--------------------------|--|--|---|---|--|--|--|--|--|--|--|--|
| | | Compact/Portable | Wallbox | Standard Cabinet | | | | | | | | |
| AC Input | Voltage, frequency | Full output power: 358-528 VAC 3-phase line to line, 50% power limit from188-357 VAC. AC line to ground voltage limited to 277VAC. 47-63 Hz. | Full output power: 358-528 VAC 3-phase line to line connected, 50% power limit from188-357 VAC. 47-63 Hz. | Full output power: 358-528 VAC 3-phase line to line connected, 50% power limit from 188-357 VAC. 47-63 Hz. | | | | | | | | |
| | Input current | 12 A max (at 358 VAC) per no. of modu | ıles + 1A | | | | | | | | | |
| | Overcurrent protection | 3-pole UL 489 listed circuit breaker | | | | | | | | | | |
| | | 10 kAIC standard, lockable | 25 kAIC standard, 65 kAIC optional, lockable | 25 kAIC standard, 65 kAIC optional, lockable. Two breakers optional for dual AC feed. | | | | | | | | |
| | AC transient protection | Layered electrical transient defenses. Optional UL1449 Open Type 1 Listed supplemental surge protection, alarmed and with field replaceable elements, surge capacity rated 75k4 8/20 us; visual and remote indications | | | | | | | | | | |
| DC Output | Voltage | 120 VDC nominal: output adjustable fro | om 0-150V. 240 VDC nominal: output adju | istable from 0-315V. | | | | | | | | |
| | Current | Output limit: 7kW or 50A for 120VDC models or 25A for 240VDC models, whichever is less | Output limit: 14kW or 100A for 120VDC models or 50A for 240VDC models, whichever is less | Output limit: 56kW or 400A for 120VDC models or 200A for 240VDC models, whichever is less | | | | | | | | |
| | Output protection | Electronic current limit. 2-pole UL 489 I | listed circuit breaker. | | | | | | | | | |
| | | 10 kAIC standard, lockable | 10 kAIC standard, 25 kAIC optional, lockable | Output ≤200A: 10 kAIC standard, 25 kAIC optional. Output >200A: 50 kAIC standard, 100 kAIC optional. Lockable. | | | | | | | | |
| | DC surge protection | Layered electrical transient defenses. O with field replaceable elements, surge c | ptional UL1449 Open Type 2 Listed supple apacity rated 75kA 8/20 μ s; visual and ren | emental surge protection, alarmed and note indications. | | | | | | | | |
| | Battery types | Flooded lead-acid, AGM, Ni-Cd, VRLA, | and lithium | | | | | | | | | |
| | Battery temp. compensation | Delivers fast-responding, stable, well-fill Standard. On-board sensor modifies our factory set to – 0.18% per degree C. Op | tered DC without battery tput voltage when temperature is between otional remote battery monitor provides ba | 0°C and+40°C. Slope adjustable, ttery temperature probe. | | | | | | | | |
| | Dead battery charge | Starts into and recharges zero-volt batte | ery | | | | | | | | | |
| | Parallel/load share operation | Two or more independent chargers active tolerance when load share accessory is | vely current share and synchronize all mod connected to each charger's paralleling b | es for increased current or fault us | | | | | | | | |
| | Output blocking protection | Prevents sparking during battery connect | ction or during hot swap operation | | | | | | | | | |
| Adjustment & Controls | Charge mode control Front panel control | arge mode control Fully automatic patented Dynamic Boost system. Manual boost & battery commissioning available fro ont panel control Change all parameters including voltages, current limits, alarm parameters, relay assignments, netwo time-outs, and more | | | | | | | | | | |
| | Local computer | Change all parameters, troubleshoot, cr | reate/save configuration files for quick dov | vnload to chargers | | | | | | | | |
| Status Reporting | LEDs | Iwo multi-color front panel status LEDs | | | | | | | | | | |
| | Metering Status display | AC & DC voltmeter accurate to ±1%; AC trequency meter to ±1.5%; AC & DC ammeter to ±1%; DC output warts | | | | | | | | | | |
| | Data logging | Data logging to internal memory based | to internal memory, based on events and at fixed times. Loas retrieved using computer network connection | | | | | | | | | |
| Alerman | Alarm Outputs | Factory set, field reconfigurable, latchin | a and non-latchina. Alarms available via | comm port, alarm relays, and on LCD. | | | | | | | | |
| Aldrms | Alarm Inputs | Two optional input contacts (via battery monitor) to monitor status of external devices such as fan or hydrogen monitor | | | | | | | | | | |
| | Alarm Form C contacts | Five Form C contacts, rated 30V, 2A resistive, assignable. Two optional Form C contacts, 120VAC, 5A resistive, assignable | Five Form C contacts, rated 30V, 2A resistive, assignable. Two optional- 120VAC, 5A or two 150VDC, 3A / 240VAC, 10A assignable | Nine Form C contacts, rated 30V, 2A resistive, assignable. Up to four optional 120VAC, 5A resistive or 150VDC, 3A / 240VAC, 10A assignable | | | | | | | | |
| | Pilot relay functions | Form C contacts configurable as pilot re | elays to switch external loads based on use | er-configurable conditions | | | | | | | | |
| Networking | Modbus communications | Optional Modbus RS-485 or TCP/IP on RJ-45 port | Optional Modbus RS-485 or TCP/IP on RJ-45 port | Optional Modbus RS-485 on terminal blocks or TCP/IP on RJ-45 port | | | | | | | | |
| | DNP3 | Optional DNP3 RS-485 or TCP/IP on RJ-45 port | Optional DNP3 RS-485 or TCP/IP on RJ-45 port | Optional DNP3 RS-485 on terminal blocks or TCP/IP on RJ-45 port | | | | | | | | |
| | SENSbus | Proprietary bus for connection of paralle | eled chargers and SENS accessories | | | | | | | | | |
| Environmental | Operating temperature | -40C to +70C; full spec from -40C to + down to -40°C. | -50C. Display may be unreadable and suff | er reduced life above 65°C. Cold starts | | | | | | | | |
| | Ingress protection | IP 20; NEMA 1 | | | | | | | | | | |
| | Humidity | 5% to 95%, non-condensing | | | | | | | | | | |
| | Altitude Vibration & shock resistance | 0-6,500 ft (2,000 meters). Above this a | Ititude, output is derated 0.012% per addi 1068-2-27 | tional meter at rated ambient temp. | | | | | | | | |
| | Flectrical transient | ANSI/IEEE C62.41 EN 61000-4-12 on 1 | power terminals IEC 61000-6-5 and ANSI | /IFFE C37 90 | | | | | | | | |
| Alexan | Reverse polarity | Charger self-protects without output pro | power terminals, IEC 01000-0-5 and ANSI | 0 & LCD. | | | | | | | | |
| Abuse | Wrong battery voltage | Charger-battery voltage mismatch shuts | s down charger after 5 minutes. Indication | via LED & LCD. | | | | | | | | |
| Frotection | Overvoltage shutdown | Selective; shutdown only operates if cho | arger causes the overvoltage condition | | | | | | | | | |
| | Overtemperature protection | Gradual output power reduction if heats | sink temperature becomes excessive; reco | very is automatic. | | | | | | | | |
| Regulatory Compliance | North America | C-UL Listed for US & Canada: CSA 22.2 NFPA-70, NEMA PE-5, PIP (optional) | z, No. 107.2, UL 1012, UL 508A | | | | | | | | | |
| | | Seismic: Rigid & non-structure wall and | floor mount; max S _{DS} of 2.5G. IBC 2000-2 | 2018, Calif. BC 2007-2016 (pending) | | | | | | | | |
| | European Union (CE) | EMC: 2014/30/EU (EN 61000-6-2 & EN | 1 61000-6-4) | | | | | | | | | |
| | | LVD: 2014/35/EU (EN 60335-1 & EN 60 | 0335-2-29) | | | | | | | | | |
| | Housing | RoHS 2: 2017/2102/EU (EN 50581) Wall mount or portable | Wall mount | Floor mount: integrated key lock and | | | | | | | | |
| Construction | Houring motorial | Aluminum with powder costed finite | | padlockable | | | | | | | | |
| | Cable entry | Side entry with one 1 inch opening for | Side entry with one $1-1/2$ inch opening | Top, bottom or side with dedicated | | | | | | | | |
| | Notwork/Alarm connection | DC and three 1/2 inch openings for AC and alarms/comms | for DC and two 1 inch openings for AC and alarms/comms | wing trough and installer-determined conduit hole sizes using 3/4 inch pilot | | | | | | | | |
| | Power connections | $\Delta C/DC$ terminal blocks: 14 – 3 ΔWG | ΔC breaker: $14 - 1/0 \Delta WG$ | Is. Form C alarms: 28 – 16AWG. | | | | | | | | |
| | | | DC breaker: 1AWG – 350kcmil | DC breaker: ≤200A: 1AWG – 350kc- mil. >200A: two 3/0AWG – 350kcmil. | | | | | | | | |



EnerGenius DC Rectifier Modules

Rectifier modules are employed in all EnerGenius DC configurations.

| | Spec | ifications: Rectifier Mo | dules | | | | | | | | | |
|---------------|---|--|--|--|--|--|--|--|--|--|--|--|
| | | 120 VDC nominal | 240 VDC nominal | | | | | | | | | |
| AC input | Voltage, frequency | Full output power: 358-528 VAC 3-phase line to line connected, 47-63 Hz. 50% power limit from188-357 VAC. | | | | | | | | | | |
| | Input current | 12 A maximum (at 358 VAC) | | | | | | | | | | |
| | AC protection | Supplementary overcurrent protection fuse, transient prote | ected to EN 61000-4-5 level 4 | | | | | | | | | |
| | Loss of phase | Continues operating with current limit reduced to 50% | | | | | | | | | | |
| | Efficiency | Efficiency Up to 95% | | | | | | | | | | |
| | Power factor & Total Harmonic Distortion | PF to 0.98 typical at maximum rated load current and boost voltage. Total Harmonic Distortion <3% | | | | | | | | | | |
| DC output | Voltage, current | Output adjustable from 8-150V. Max power and current limited to 7kW or 50A, whichever is less. | Output adjustable from 16-315V. Max power and current limited to 7kW or 25A, whichever is less. | | | | | | | | | |
| | Soft start | System gradually increases current with a maximum of 5 seconds to full-required output | | | | | | | | | | |
| | Charging modes | Multi-stage, including float, boost, HELIX and commissioning charge modes | | | | | | | | | | |
| | Current limit | 100% current capability subject to temperature limits and | AC voltage limits; field adjustable to max rated current | | | | | | | | | |
| | Charging characteristic | Constant voltage, current limited; patented Dynamic Boost | t and HELIX control | | | | | | | | | |
| | Line & load regulation | ±0.5% | | | | | | | | | | |
| | Output ripple | <30mV on-battery, <100mV off-battery. Delivers fast-responding, stable, well-filtered DC w/o batt | <30mV on-battery. <200mV off-battery. Delivers fast-responding, stable, well-filtered DC w/o batt | | | | | | | | | |
| | Step response | 8ms typical, to recover within 1% of rated output voltage f | rom load step change of 50% rated output current | | | | | | | | | |
| | Parallel/load share operation | Active load sharing between rectifier modules within each | charger | | | | | | | | | |
| | Output blocking protection | Serves as an "OR" diode to isolate non-functioning modules from other operating modules | | | | | | | | | | |
| Environmental | Operating temperature | -40C to +70C; full spec from -40C to +50C. | | | | | | | | | | |
| | Rectifier module cooling | Forced conduction [™] system with metal to air heat exchang Redundant, adjustable speed fans with failure alarm, field | ger to isolate electronics from airborne contamination. replaceable. Field-cleanable air filters. | | | | | | | | | |

Hot swap rectifiers in 56 kW systems.



How To Order Rectifier Modules and Spares

Rectifier modules are included with and shipped installed inside all systems. Ordering individual rectifier modules is only necessary to provision on-site spares or to add power/redundancy to chargers in the field.

| Product | Description | Kit Part Number |
|--------------------------------------|---|-----------------|
| De stiffen Ade deles | 120VDC module for increased power or redundancy | 209412-06 |
| Rectifier Modules | 240VDC module for increased power or redundancy | 209412-07 |
| | 120/240VDC basic kit – includes display circuit board, fans and filters | 209412-13 |
| 7kW Compact/ Portable Spare Parts | 120VDC basic kit plus AC and DC surge protectors | 209412-14 |
| | 240VDC basic kit plus AC and DC surge protectors | 209412-19 |
| | 120VDC basic kit – includes display circuit board, 120VDC module, fans and filters | 209412-15 |
| 14kW Wallbox | 120VDC basic kit plus AC and DC surge protectors | 209412-16 |
| Spare Parts | 240VDC basic kit – includes display circuit board, 240VDC module, fans and filters | 209412-20 |
| | 240VDC basic kit plus AC and DC surge protectors | 209412-21 |
| | 120VDC basic kit – includes display circuit board, communications circuit board, 120VDC module, fans and filters | 209412-17 |
| 56kW Cabinet | 120VDC basic kit plus AC and DC surge protectors | 209412-18 |
| Spare Parts | 240VDC basic kit – includes display circuit board, communications circuit board, 240VDC module, fans and filters | 209412-22 |
| | 240VDC basic kit plus AC and DC surge protectors | 209412-23 |



How To Order 7 kW Compact/Portable Charger

| Product Type | Cabinet Type | - | AC Volts | - | DC Volts | - | Output Current | - | Display/ Comms | Accy H/W | Surge Protect | - | Mount | Factory Option |
|-----------------|-----------------|---|-------------|---|-------------|---|-------------------|---|-------------------|-------------|------------------|---|-------|-------------------|
| D | S | - | F | - | 120 | - | 050 | - | A | 0 | Α | - | 0 | 00 |
| | B | | C | | D | | E | | F | G | H | | | J |

| | Parameter | Code | Value |
|---|------------------------------|---------------------------------|---|
| A | Product Type | D | EnerGenius DC |
| B | Enclosure | S | 7 kW compact/portable charger |
| C | AC Input Voltage | F | Three Phase - 380-480 VAC nominal, 50/60 Hz |
| D | DC Output Voltage | 120 240 | 120 VDC nom. 240 VDC nom. |
| E | Output Current | 006 012 025 035 050 | 6 A at 240 VDC 12 A at 120 or 240 VDC 25 A at 120 or 240 VDC 35 A at 120 VDC 50 A at 120 VDC |
| | Display and Communications** | A | LCD, keypad control, 5 Form C relays |
| G | Accessory Hardware | 0 A | None High Current AC Alarm Relays (2x 120 VAC, 5A) |
| H | Surge Protection | A B | Standard AC/DC surge protection Supplementary surge protection (UL1449 Open Type 2 Listed) |
| | Mounting | 0 1 | Wallmount Portable |
| J | Configuration | 00 01 XX | Standard PIP compliant (requires Accessory Hardware selection A above) Factory specified custom configuration |

**Networking hardware is standard. Software to enable communication protocols is optional. See How to Order Communications Software Kits.

How To Order Communications Software Kits

EnerGenius DC chargers include communications hardware as standard. Order software kits separately.

- Modbus: p/n 209445-01
- DNP3: p/n 209445-02



How To Order 14 kW Wallbox

| Product Type | Cabinet Type | - | AC Volts | AC Inter. | - | DC Volts | DC Inter. | - | Output Current | - | Redun./ Term. | - | Display/ Comms | Accy H/W | Surge Protect | - | Mount | Factory Option |
|-----------------|-----------------|---|-------------|--------------|---|-------------|--------------|---|-------------------|---|------------------|---|-------------------|-------------|------------------|---|-------|-------------------|
| D | W | - | F | S | - | 120 | S | - | 100 | - | 0 | - | A | 0 | Α | - | 0 | 00 |
| A | B | | C | D | | E | F | | G | | H | | | J | K | | L | M |

| | Parameter | Code | Value |
|---|---|---------------------------------|---|
| | Product Type | D | EnerGenius DC |
| B | Enclosure | w | 14 kW wallbox charger |
| C | AC Input Voltage | F | Three Phase - 380-480 VAC nominal, 50/60 Hz |
| D | AC Interrupt | S H | Standard Interrupt Rating (25 kAIC) High Interrupt Rating (65 kAIC) |
| E | DC Output Voltage | 120 240 | 120 VDC nom. 240 VDC nom. |
| F | DC Interrupt | S H | Standard Interrupt Rating (10 kAIC) High Interrupt Rating (25 kAIC), not available on 240 VDC units |
| ٩ | Output Current (rectifiers included in system part number and ship installed) | 025 035 050 075 100 | 25 A at 240 VDC 35 A at 240 VDC 50 A at 120 or 240 VDC 75 A at 120 VDC 100 A at 120 VDC |
| H | Redundancy/Termination | 0 1 | No redundancy N+1 |
| | Display and Communications** | A B | Standard; LCD, keypad control, 5 Form C relays Standard plus breaker status |
| 0 | Accessory Hardware | 0 А В С D | None High Current AC Alarm Relays (2x 120 VAC, 5 A) High Current AC/DC Alarm Relays (2x 150 VDC, 3 A / 240 VAC, 10 A) AC Breaker Shunt Trip Options B and C |
| K | Surge Protection | A B | Standard AC/DC surge protection Supplementary surge protection (UL1449 Open Type 2 Listed) |
| L | Mounting | 0 | Wallmount |
| | Configuration | 00 01 XX | Standard PIP compliant (requires Accessory Hardware selection A, B or D above) Factory specified custom configuration |

**Networking hardware is standard. Software to enable communication protocols is optional. See How to Order Communications Software Kits.

How To Order Communications Software Kits

EnerGenius DC chargers include communications hardware as standard. Order software kits separately.

- Modbus: p/n 209445-01
- DNP3: p/n 209445-02



How To Order 56 kW Standard Cabinet

| Product Type | Cabinet Type | - AC Volts | AC Inter. | - | DC Volts | DC Inter. | - | Output Current | - Redun. Term. | ′ - | Redun./ Term. | - | Display/ Comms | Accy H/W | Surge Protect | - Mount | Factory Option | | | |
|-----------------|--|-----------------------|-------------------------------------|--|---|--|--|---|-----------------------------------|--------------|------------------|------------|------------------------|----------------------|---------------------|----------|-------------------|--|--|--|
| D | К | - F | S | - | 120 | S | - | 400 | - 300 | - | 0 | - | Α | 0 | Α | - 0 | 00 | | | |
| | B | C | D | | E | F | | G | θ | | | | J | K | L | M | N | | | |
| | Paramet | er | | | Code | Valu | e | | | | | | | | | | | | | |
| | Product | Туре | | | D | EnerGenius DC | | | | | | | | | | | | | | |
| B | Enclosur | e | | | к | Cabi | net | | | | | | | | | | | | | |
| Č | AC Input | t Voltage | | | F | Thre | e Pł | hase - 38 | 0-480 VA | C noi | minal, 50 |)/60 |) Hz | | | | | | | |
| D | AC Inter | rupt | | | S H | Stan High | Standard Interrupt Rating (25 kAIC) High Interrupt Rating (65 kAIC) | | | | | | | | | | | | | |
| E | DC Outp | out Voltage | | | 120 240 | 120 240 | | C nom. C nom. | | | | | | | | | | | | |
| € | DC Inter | rupt | | | S H | Stan High | daro Int | d Interrup errupt (5 | ot Rating (0kAIC for | 10k/ <20(| AIC for | 200 AIC | 0A, 25kAl C for >20 | C for >2 0A), not | 00A) available f | or 240V[| DC at 50A | | | |
| G | Output Current Capacity (rectifiers included in system part number and ship installed) | | | | | 50 A 100 150 200 300 400 | A at A at A at A at A at A at | 240 VDC t 120 or 2 t 240 VD t 120 or 2 t 120 VD t 120 VD t 120 VD | 240 VDC C 240 VDC C C | | | | | | | | | | | |
| Ĥ | Factory Current | Installed O | | 025 050 100 125 150 175 200 250 300 350 400 | 25 A 50 A 75 A 100 125 150 200 250 300 350 | 25 A at 240 VDC 50 A at 120 or 240 VDC 75 A at 240 VDC 100 A at 120 or 240 VDC 125 A at 240 VDC 150 A at 120 or 240 VDC 200 A at 120 or 240 VDC 200 A at 120 or 240 VDC 250 A at 120 VDC 300 A at 120 VDC 350 A at 120 VDC | | | | | | | | | | | | | | |
| 0 | Redundo | 0 1 2 A B | No re N+1 N+2 Dual Dual | No redundancy N+1 N+2 Dual AC with common DC Dual System (AC, DC, control and accessories) | | | | | | | | | | | | | | | | |
| J | Display a | and Commu | unication | s** | A B | LCD, keypad control, 9 Form C relays | | | | | | | | | | | | | | |
| K | Accesso | ry Hardwar | e | | 0 A B C D E F | None High AC B Optic 2x O 2x O | None High Current AC Alarm Relays (2x 120 VAC, 5 A) High Current AC/DC Alarm Relays (2x 150 VDC, 3 A / 240 VAC, 10 A) AC Breaker Shunt Trip Options B and C 2x Option B 2x Options B and C | | | | | | | | | | | | | |
| Ŀ | Surge Pr | otection | | | A B | Stan Supp | dara olem | d AC/DC nentary s | surge prot urge prote | ectio | on 1 (UL144 | 9 0 | Open Type | e 2 Listed |) | | | | | |
| \bigotimes | Mountin | g | | | 1 2 | Floor Floor | rmo rmo | unt unt with | toplift | | | | | | | | | | | |
| | Configur | ration | | | 00 01 XX | Stan PIP c Facto | daro com ory : | d pliant (re specified | quires Acc custom co | esso | ory Hard | var | e selectio | n A, B, D |), E or F ab | ove) | | | | |

**Networking hardware is standard. Software to enable communication protocols is optional. See How to Order Communications Software Kits.

Contact factory for higher power and/or non-standard configurations.

Contact SENS or your local sales representative for additional specification, engineering and installation information, or visit SENS' website for latest available data. Specification subject to change without notice. SENS, Stored Energy Systems, the battery/rectifier logo, Dynamic Boost, and EnerGenius are trademarks of Stored Energy Systems LLC. Patented US 9,270,140; 9,385,556; 9,413,186; 9,509,164; 9,466,995; 9,948,125; 10,575,433.

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