

INVERTER OPTIONS & SERVICE PLANS

Option Codes and Definitions

AD	Auto Dialer/Pager Dials / Pages up to 4 telephone / pager numbers upon a summary alarm condition. Module is powered by the inverter output to provide continuous functioning during utility power failure.
BCM	Battery Cycle Monitoring Internal battery measuring device that records total battery voltages, currents and number of discharge events. Used as a method to support battery warranty.
C(*)	Output Circuit Breakers Distribution circuit breakers are for output load protection - Protection for the normally on and/or normally off loads (normally off output is optional in some systems). Breaker quantities vary by system type and size.
DCS	Summary Dry Contacts "Form C" Form "C" contacts rated at 5 amps maximum at 250VAC/30VDC. Dry contacts will change state when any system alarm activates. Contacts change state with the following alarms: High battery charger fault, near low battery, low battery, load reduction fault, output overload, high/low AC input volts, high ambient temperature, inverter fault, and with optional circuit breaker trip alarm.
EMBP	External Maintenance Bypass Switch This maintenance bypass switch is mounted in a NEMA 1 enclosure with a hinged door measuring 20" high by 16" wide by 9" deep and permits maintenance personnel to easily bypass the protected equipment directly to the AC utility power. The make before break switch isolates the system to perform routine maintenance or servicing. This accessory cannot be used in conjunction with more than one output circuit breaker in the system and the output circuit breaker must be sized for the total system current.
FAX	Fax Modem The fax modem option sends a fax to specified phone numbers (up to 8 maximum) upon utility failure, output failure and summary alarm condition.
FCH	Fast Charge - Battery Charger Upgrade (12 Hour Recharge) This is a battery charger upgrade, which decreases the time to recharge a fully discharged battery bank to a full charge. The recharge time is decreased from the standard 24-hour period to a 12-hour period.
IAUTO & OAUTO	Input & Output Auto Transformers Dry type power transformer provides the inverter AC input or output (whichever is required) via buck / boost windings. The hottest winding temperature of the transformer shall not exceed the temperature limit of the transformer insulation class of material at ambient temperature.
IISO & OISO	Input & Output Isolation Transformers Dry type power transformer provides the inverter AC input or output (<u>whichever is required</u>) via isolated input to output windings. The hottest winding temperature of the transformer shall not exceed the temperature limit of the transformer insulation class of material at ambient temperature. These transformers must be bonded to ground as a separately derived source.
IOC	Inverter on Dry Contacts Form "C" contacts rated at 5 amps maximum at 250VAC/30VDC. Dry contacts will change state when system transfers to battery.
MBYP	Maintenance Bypass Switch (Internal) This device is internally mounted in the system and permits maintenance personnel to easily bypass the protected equipment directly to the AC utility power. The make before break switch isolates the system to perform routine maintenance or servicing.
MOD	Modem for RS-232 Option (External) Modems are devices that boost the signal level of the RS-232 diagnostic interface communications to a remote location that is more than 100 feet away from the system.

Note: Not all options are available on all systems!
Contact Factory to determine availability.

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NC	<p>Wet Nickel Cadmium Batteries</p> <p>Cell containers are made of translucent, heavy-duty polypropylene, making it easy to check the electrolyte level. The battery cells are housed in cabinets with step shelves to facilitate the viewing of electrolyte levels. Life expectancy is designed for 25-years at 77°F (25°C). Recombination vent plugs are included with the batteries to reduce water loss. Warranty is one-year full replacement plus an additional nineteen years pro-rata.</p>
N.OFF	<p>Normally Off Output</p> <p>This output circuit is dedicated for the “emergency only” equipment. “Emergency only” equipment operates during power outages, when the system is on battery back up. This option leaves the load circuits off during normal utility power conditions.</p>
OTA(*)	<p>Output Circuit Breaker Trip Alarm</p> <p>An audible and visual alarm activates when an output distribution circuit breaker is open or has tripped.</p>
PM	<p>Preventative Maintenance Contract</p> <p>ISI currently offers Annual, Bi-Annual and Quarterly preventative maintenance contracts. Based on your system and contract type, ISI will make a site visit Once, Twice or Four times a year to ensure proper running condition. An ISI technician will check the system batteries, connections, perform load tests and report system status.</p>
RMP	<p>Remote Meter Panel</p> <p>This allows greater flexibility to monitor all the system parameters from a remote location. Up to 300 feet away from the system. This allows the user to remotely monitor the status of the inverter. Also allows user to control and program the inverter from a remote location.</p>
RSAP	<p>Remote Summary Alarm Panel</p> <p>A 4” high by 4” wide by 2 1/4” deep box containing a red alarm light and buzzer with a silence switch will activate on any summary alarm condition.</p>
SB(20)	<p>Extended Warranty Sealed Lead Calcium, VRLA Battery</p> <p>Maintenance free battery that requires no addition of water over the life of the battery. The battery cells are housed in protective, steel cases. Warranty is designed for 20-years at 77°F (25°C). Warranty is one-year full replacement plus an additional fourteen years pro-rata.</p>
SMC	<p>Seismic Mounting and Bracing</p> <p>Secures cabinets to floor or mounting pad via compression anchor bolts and cabinet seismic hold-downs to prevent or minimize damage caused by seismic activity. Battery movement is restricted.</p>
SUS	<p>Unit Start-Up and Site Testing</p> <p>Site start-up and testing shall be provided by the manufacturer’s field service representative during normal working hours (Mon. - Fri. 8 a.m. - 5 p.m.). Individual scheduling requirements can usually be met with 7 working days advance notice. Site testing shall consist of a complete test of the UPS and accessories by the UPS manufacturer in accordance with manufacturer’s standards. Manufacturer’s approved service representative must perform commissioning for two-year warranty to apply.</p>
TE / BE	<p>Transformer Enclosure or Breaker Enclosure</p> <p>Enclosure for voltage transformers when needed and a breaker enclosure for when unit does not allow enough internal space to house required number breakers.</p>
TD	<p>Time Delay (15 Minute) Requires Normally Off Circuit</p> <p>Used on normally off circuit(s) to delay retransfer of inverter to continue supplying emergency power to the normally off circuit(s) for 15 minutes after return of utility power. This delay allows HID’s in the area to restrike and regain full light output.</p>
Z(*)	<p>Zone Monitoring</p> <p>Provides the ability for the inverter to monitor additional utility sources or areas. Loss of power in any zone will cause the inverter to transfer to battery.</p>

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