Advanced IGBT technology in both the rectifier and inverter
True double conversion UPS system
Extra wide input and frequency range for complete generator compatibility
2-year warranty
Front LCD display for diagnostics of the UPS system
UL924 listed
Custom output receptacle panels available
Internal Maintenance Bypass Switch
Auto-restart standard

7011A Series (6kVA to 12.0kVA) Advantages

Specifications: 7011A Series 6kVA – 12.0kVA

<table>
<thead>
<tr>
<th>Model Type</th>
<th>7011A-60</th>
<th>7011A-80</th>
<th>7011A-100</th>
<th>7011A-12.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topology</td>
<td>Single Phase, True On-Line, Double Conversion</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input</th>
<th>Voltage</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>240/120V (1 Phase), 208/120V (2 Phase)</td>
<td>±5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Capacity (Max)</th>
<th>6.0kVA</th>
<th>4.0kW</th>
<th>8.0kVA</th>
<th>5.6kW</th>
<th>10.0kVA</th>
<th>7.0kW</th>
<th>12.0kVA</th>
<th>8.4kW</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Input Terminal Block</th>
<th>Terminal Block</th>
<th>Terminal Block</th>
<th>Terminal Block</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Reflected Current THD</th>
<th>&lt; 4% at 100% load</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Circuit Protection</th>
<th>35A</th>
<th>45A</th>
<th>60A</th>
<th>70A</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Output Voltage</th>
<th>240/120V or 208/120V or 120/120V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50/60Hz ± 0.01%</td>
</tr>
<tr>
<td>Output Waveform</td>
<td>Sine wave</td>
</tr>
<tr>
<td>Transfer Time</td>
<td>Zero transfer time</td>
</tr>
<tr>
<td>Capacity</td>
<td>6.0kVA</td>
</tr>
<tr>
<td>----------------------</td>
<td>--------</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rated Load Power Factor</th>
<th>0.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crest Factor Capabilities</td>
<td>300% of rated current effective value (crest factor is 3:1)</td>
</tr>
<tr>
<td>Transient Response</td>
<td>± 3% typical load</td>
</tr>
<tr>
<td></td>
<td>± 1% at loss/return of AC power</td>
</tr>
<tr>
<td>Harmonic Distortion</td>
<td>2% or less (linear load) 1% (typical)</td>
</tr>
</tbody>
</table>

| System Overload          | 150% for 1 minute, 1000% for 1 cycle (with bypass available) |
| Bypass Overload          | 150% for 1 minute, 1000% for 1 cycle |

<table>
<thead>
<tr>
<th>Receptacles</th>
<th>Terminal Block (optional receptacle panels available)</th>
</tr>
</thead>
</table>

| Battery Size of Battery Charger | 5A (max.) |
| Type (Life)                   | Sealed lead-acid battery (5 years) |
| Quantity                     | 12V 7Ah x 18 | 12V 7Ah x 36 | 12V 7Ah x 36 | 12V 7Ah x 36 |
| Backup Time @ 100% Load      | 10 minutes | 15 minutes | 12 minutes | 10 minutes |
| Recharge Time                | 90% after 8 hours, 100% after 24 hours |

| Nominal Voltage | 216Vdc |

| Environment Operating Temperature | 0 to 40°C (32 to 104°F) optimal at 25°C |
| Operating Humidity | 5 to 95% (no condensation) |
| Audible Noise | 45db at 1m (3.3 ft) from front panel |
| Altitude | Less than 4000m (12000 ft) |

| Design Enclosure | Enclosure of unit is metal meeting NEMA 1 and UL Type 1 |
| Emergency Power Off | Standard (Terminal Contacts) |

Mitsubishi Electric Power Products, Inc.
Uninterruptible Power Supplies (UPS) Division
547 Keystone Drive • Warrendale, PA 15086
Phone: 724-772-4516 • Fax: 724-779-3046
www.meppi.com
M60000483-RevA2 - February 2011
Power Failures Strike at the Heart of Critical Operations

7011A Series Product Line • True On-Line, Double Conversion UPS

Mitsubishi Electric is the world’s leading manufacturer of power conversion technology and at the leading edge of technology in designing, developing and producing high performance Insulated Gate Bipolar Transistors (IGBT). Mitsubishi Electric understands the importance of protecting your equipment and data from uncontrolled power problems and failures. Mitsubishi Electric — your power protection solution provider.

IGBT Technology in the 7011A Series

Mitsubishi Electric is the world’s leading manufacturer of advanced, high performance Insulated Gate Bipolar Transistors (IGBT). Mitsubishi Electric utilizes its IGBT market expertise by incorporating IGBT technology in the converter and inverter sections of the 7011A Series. These transistors and advanced, high performance Insulated Gate Bipolar Transistors (IGBT). Mitsubishi Electric breeds confidence with its renowned quality and reliability. The 7011A Series UPS system is a true online, double conversion UPS system that will protect your equipment against any power problem. An unparalleled single-phase UPS system was developed to protect the most critical of applications.

Relied on Mitsubishi’s 7011A Series to Protect Your Critical Equipment

The 7011A Series ranges from 6kVA to 12kVA systems covering a wide spectrum of applications. From individual computers, to network server farms, to LAN gateways, bridges, routers, telecommunications systems, security systems, process control units, banking systems, or point of sales, the 7011A Series provides the most complete protection for voltage-sensitive equipment.

The Newscram Features:

Remote UPS status monitoring – Monitor a remote UPS system using an RS-232 Cable to the Newscram for one UPS system to a remote workstation (NMS) through an Ethernet connection or a modem.

Web Card – Assign an IP address to your UPS system to monitor the UPS system from anywhere around the world.

SNMP Adapter – Transform the UPS system’s protocol into an SNMP server and enable SNMP traps.

SNMP Viewer – Unique Mitsubishi design that color coordinates SNMP messages that inform the network about all current UPS states.

Send Shutdown Signal to Networked Servers – Send a shutdown signal to servers connected via the Ethernet network.

Battery and Service Monitoring – Monitor the battery life and servicing details of the UPS.

Modbus Communications for Building Management Systems

The Modbus protocol allows the user to integrate Mitsubishi Electric UPS systems into their current Building Management Solution. The Modbus is a user-programmable protocol converter, or data concentrator, that is DIN-rail mountable, with 2 serial ports: One RS-232, one RS-485, and over 2,048 internal mailbox registers. Through the ModBus protocol converter, the UPS system’s status can be monitored through various Building Management System vendors’ software.

UPS Monitoring Equipment & Software

The 7011A Series UPS systems are true online, double conversion UPS systems that provide complete power protection from any power problem. Whether power failures, power sags, power surges, undervoltage, overvoltage, and harmonic distortion attack your equipment, a 7011A UPS system will provide the most complete level of power protection and reliability available. The 7011A Series UPS system does more than just provide battery backup. It is the UPS system of the future. This true conversion topology delivers many advantages for critical load applications:

- Wide input voltage window
- Wide input frequency window
- Low input THD
- Input power factor correction
- Continuous regulation
- Low audible noise
- Generator compatible
- Low input THD
- Low output THD
- Continuous output regulation
- Low audible noise

Low Heat Loss/High Efficiency

Use of IGBTs permit an efficient high speed switching, thus reducing heat dissipation in the UPS system. (Higher efficiency means lower cost per kilowatt and lower total cost of ownership.)

On-Line Double Conversion UPS System

Mitsubishi Electric’s 7011A UPS systems are true online, double conversion UPS systems that provide complete power protection from any power problem. Whether power failures, power sags, power surges, undervoltage, overvoltage, and harmonic distortion attack your equipment, a 7011A UPS system will provide the most complete level of power protection and reliability available. The 7011A Series UPS system does more than just provide battery backup. It is the UPS system of the future. This true conversion topology delivers many advantages for critical load applications:

Hardware Input / Output & Receptacle Panels

To meet diverse electrical requirements, input line cords and output load receptacle panels are offered for Play / Play applications. Output load receptacle boxes are offered for quick and easy on-site connections. Standard receptacle panels are in stock, or contact Mitsubishi Electric for custom configurations.

Smart Battery Charger

Every 7011A Series UPS system has a large, Smart 3-Step battery charger inside. The 7011A battery chargers are designed to prolong the life of the batteries, recharge the UPS system quicker than standard one-step chargers. A quicker recharge time means that the 7011A system will be ready for the next power outage.

Extended Runtimes Available

When longer runtimes are in demand, the 7011A Series accommodates a variety of applications and needs. By simply adding external battery cabinets, your runtime will be considerably increased to meet those specific needs.

Maintenance Bypass Switch

Each 7011A Series UPS system includes a static Maintenance Bypass Switch (MBS). For applications where you need to isolate the input and output power from the UPS system, to allow service personnel to perform routine maintenance and testing without interrupting power to the connected critical loads, Mitsubishi Electric offers an external MBS system. This 3-position make-before-break MBS is available for all 7011A Series (6kVA to 12kVA) UPS systems in a wall mounted NEMA 1 enclosure.

System Dimensions: 6kVA to 12kVA UPS

<table>
<thead>
<tr>
<th>Model</th>
<th>Width (in.)</th>
<th>Height (in.)</th>
<th>Depth (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7011A-80</td>
<td>20.0</td>
<td>18.0</td>
<td>22.0</td>
</tr>
<tr>
<td>7011A-100</td>
<td>20.0</td>
<td>18.0</td>
<td>22.0</td>
</tr>
<tr>
<td>7011A-120</td>
<td>20.0</td>
<td>18.0</td>
<td>22.0</td>
</tr>
<tr>
<td>7011A-150</td>
<td>20.0</td>
<td>18.0</td>
<td>22.0</td>
</tr>
</tbody>
</table>

Weight (lbs):

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7011A-80</td>
<td>257.0</td>
</tr>
<tr>
<td>7011A-100</td>
<td>257.0</td>
</tr>
<tr>
<td>7011A-120</td>
<td>257.0</td>
</tr>
<tr>
<td>7011A-150</td>
<td>257.0</td>
</tr>
</tbody>
</table>
This dual conversion topology delivers many advantages for critical systems. It not only provides battery backup, it enhances the existing power distribution network. While the system is running connected to AC power, the UPS system will provide the most complete level of power protection against electrical line noise, overvoltage, frequency variation, switching surges, and data from undesired power problems and failures. Mitsubishi Electric breeds confidence with its renowned quality and reliability. Mitsubishi Electric continues to provide unparalleled product warranty with the 7101A Series. Every 7011A Series UPS comes standard with a two-year product warranty. This warranty includes the batteries, making a bold statement regarding the technology and reliability of our UPS system.

Extended Runtimes Available
Where longer runtimes are in demand, the 7011A Series accommodates a variety of applications. From individual computers, to network server farms, to LAN gateways, bridges, routers, telecommunication systems, security systems, process control units, banking systems, or point of sales, the 7011A Series provides the most complete protection for voltage-sensitive equipment. Communications systems, security systems, process control units, banking systems, or point of sales, the 7011A Series provides the most complete protection for voltage-sensitive equipment.

Maintenance Bypass Switch
Each 7011A Series UPS system includes a static Maintenance Bypass Switch (MBS). For applications where you need to isolate the input and output power from the UPS system, to allow service personnel to perform routine maintenance and testing without interrupting power to the connected critical loads, Mitsubishi Electric offers an external MBS system. This 3-phase model make-before-break MBS is available for all 7011A Series (8kVA to 12kVA) UPS systems in a wall mounted NEMA 3 enclosure.

System Dimensions: (8kVA – 12.8kVA)

<table>
<thead>
<tr>
<th>Model</th>
<th>Width (in)</th>
<th>Height (in)</th>
<th>Depth (in)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7011A-80</td>
<td>23.6</td>
<td>22.0</td>
<td>16.0</td>
<td>325</td>
</tr>
<tr>
<td>7011A-100</td>
<td>27.8</td>
<td>29.9</td>
<td>20.0</td>
<td>607</td>
</tr>
<tr>
<td>7011A-125</td>
<td>29.9</td>
<td>29.9</td>
<td>25.0</td>
<td>957</td>
</tr>
</tbody>
</table>

Rely on Mitsubishi’s 7011A Series to Protect Your Critical Equipment

Mitsubishi Electric is the world’s leading manufacturer of power conversion products, and at the leading edge of technology in designing and developing systems that will ensure reliable operation in the most demanding environments. With a long history and a commitment to the highest quality, Mitsubishi Electric leads the industry in the development of advanced, high-quality products that are reliable and cost-effective.

Low Heat Loss/High Efficiency
Use of IGBTs permit efficient high speed switching, thus reducing heat dissipation in the UPS system. (Higher efficiency means lower cost per kilowatt and lower total cost of ownership.) Mitsubishi Electric utilizes their IGBT market expertise by incorporating IGBT technology in the converter and inverter sections of the 7011A Series. These characteristics yield a variety of environmental benefits, including:

- Large power capabilities
- High speed switching
- Low input THD
- Low control power consumption
- Generator compatible
- Low audible noise

IGBT Technology in the 7011A Series
Mitsubishi Electric is the world’s leading manufacturer of advanced, high performance Insulated Gate Bipolar Transistors (IGBT). Mitsubishi Electric has leveraged its IGBT market expertise by incorporating IGBT technology in the converter and inverter sections of the 7011A Series. These characteristics yield a variety of environmental benefits, including:

- Wide input frequency window
- Low input THD
- Low input frequency window
- Low output THD
- Input power factor correction
- Continuous regulation
- 99.9% power protection
- High efficiency

Hot-Swappable Batteries
Replacement of batteries is made safe and easy with the hot-swap feature, including:

- Wide input voltage window
- Wide input current window
- Low input THD
- Input power factor correction
- Continuous regulation
- 99.9% power protection
- High efficiency

UPS Monitoring Equipment & Software
The 7011A Series ranges from 8kVA to 12kVA systems covering a wide spectrum of applications. From individual computers, to network server farms, to LAN gateways, bridges, routers, telecommunication systems, security systems, process control units, banking systems, or point of sales, the 7011A Series provides the most complete protection for voltage-sensitive equipment.

The Netcom2 hardware SNMP/Web interface allows you to monitor your UPS system using a simple Network Management Protocol (SNMP) software agent. This powerful and intelligent agent is designed for the most rigorous task of managing the critical UPS systems that protect equipment and the critical data residing throughout the network.

Netcom2 Features:
- Remote UPS status monitoring – Monitor a remote UPS system using an RS-232 Cable to the Netcom2 for one UPS system in a remote workstation (NMS) through an Ethernet connection.
- Web Card – Assign an IP address to your UPS system to monitor the UPS system from anywhere around the world
- SNMP Adapter – Turn the UPS system’s protocol into an SNMP software agent and enable SNMP traps
- SNMP Viewer – Unique Mitsubishi design that color coordinates SNMP messages that informs users about all current and past UPS system events
- Send Shutdown Signal to Networked Servers – Send a shutdown signal to servers connected via the Ethernet network.
- Battery and Service Monitoring – Monitor the battery life and servicing details of the UPS
- E-mail – Send the Administrator an e-mail when an event occurs

Modbus Communications for Building Management Systems
The NUCM card allows the customer to integrate Mitsubishi Electric UPS systems into their current Building Management Solution. The NUCM is a user-programmable protocol converter, or data concentrator, that is DIN-rail mountable, with 2 serial ports: one RS-232, one RS-485, and over 2,048 internal mailboxes registers. Through the Modbus protocol converter, the UPS system's critical data can be monitored through various Building Management System vendors' software.
Power Failures Strike at the Heart of Critical Operations

Rely on Mitsubishi's 7011A Series to Protect Your Critical Equipment

UPS Monitoring Equipment & Software

The 7011A Series ranges from 6kVA to 12kVA systems covering a wide spectrum of applications. From individual computers, to network server farms, to LAN gateways, bridges, routers, telecommunication systems, security systems, process control units, bank systems, or points of sales, the 7011A Series provides the most complete protection for voltage-sensitive equipment.

The New Works with all major NMS systems on Ethernet – Mitsubishi Electric continues to provide unparalleled product warranty with the 7011A Series. Mitsubishi Electric offers an external MBS system. This 3-position make-before-break MBS from the UPS system, to allow service personnel to perform routine maintenance and service on the UPS system without disrupting external loads. Each 7011A Series UPS system includes a static Maintenance Bypass Switch and needs. By simply adding external battery cabinets, your runtime will be considerably increased for at least 90 minutes in the event of a power outage.

2-Year Warranty – Mitsubishi Electric continues to provide unparalleled product warranty with the 7011A Series. Mitsubishi Electric offers an external MBS system. This 3-position make-before-break MBS from the UPS system, to allow service personnel to perform routine maintenance and service on the UPS system without disrupting external loads. Each 7011A Series UPS system includes a static Maintenance Bypass Switch and needs. By simply adding external battery cabinets, your runtime will be considerably increased for at least 90 minutes in the event of a power outage.

7011A Series Product Line • True On-Line, Double Conversion UPS

Mitsubishi Electric is the world’s leading manufacturer of power conversion technology and at the leading edge of technology in designing advanced, high performance, high efficiency UPS systems. In response to your request for more information, and to provide you with the most complete level of power protection available. The 7011A Series UPS system will provide the most complete level of power protection against transients, or harmonic distortion attack your equipment, a 7011A UPS system will provide the most complete level of power protection against transients, or harmonic distortion attack your equipment, and data from undesired power problems and failures.

Mitsubishi Electric – your power protection solution provider.

IGBT Technology in the 7011A Series

Mitsubishi Electric is the world’s leading manufacturer of advanced, high performance Insulated Gate Bipolar Transistors (IGBT). Mitsubishi Electric utilizes their IGBT market expertise by incorporating IGBT technology in the converter and inverter sections of the 7011A Series. These semiconductor components provide a variety of important features, including:

- Wide input voltage window
- Low input THD
- Wide input frequency window
- Output power factor correction
- Low output THD
- Continuously regulated
- Low control power consumption
- Low audible noise
- High speed switching
- Low output THD
- Low input THD
- Generator compatible
- Low power consumption
- Low audible noise
- Low control power consumption
- Low input THD

Maintenance Bypass Switch

Mitsubishi Electric’s 7011A systems are true on-line double conversion UPS systems that protect your equipment from any power problem. Mitsubishi Electric breeds confidence with its renowned quality and reliability. Mitsubishi Electric understands the importance of protecting your equipment and data from undesired power problems and failures.

IGBT Technology in the 7011A Series

Mitsubishi Electric is the world’s leading manufacturer of advanced, high performance Insulated Gate Bipolar Transistors (IGBT). Mitsubishi Electric utilizes their IGBT market expertise by incorporating IGBT technology in the converter and inverter sections of the 7011A Series. These semiconductor components provide a variety of important features, including:

- Low heat loss
- High efficiency
- Use of IGBTs permit efficient high speed switching, thus reducing heat dissipation in the UPS system. (Higher efficiency means lower cost per kilowatt and lower total cost of ownership.)

On-Line Double Conversion UPS System

Mitsubishi Electric’s 7011A systems are true on-line double conversion UPS systems that protect your equipment from any power problem. Whether power failures, power surge, power surges, undervoltage, overvoltage, line noise, transients, or harmonic distortion attack your equipment, a 7011A UPS system will provide the most complete level of power protection and reliability available. The 7011A Series UPS system does more than simply provide battery backup. It enhances the existing power distribution system via its double conversion topology delivers many advantages for critical loads:

- Wide input voltage window
- Wide input frequency window
- Input power factor correction
- Continuous regulated
- 99.9% power protection
- Low output THD
- Low input THD
- Generator compatible
- Low power consumption
- Low audible noise
- High speed switching
- Low input THD
- Low output THD
- Continuously regulated
- Low control power consumption
- Low audible noise
- High speed switching
- Low input THD
- Low output THD
- Generator compatible
- Low power consumption
- Low audible noise
- High speed switching

Hot-Swappable Batteries

Replacement of batteries is made safe and easy with the hot-swap feature. There is no need to turn the UPS system off; battery change-out is performed while the system is running connected to AC power.

Manual Communications for Building Management Systems

The MUCM card allows the customer to integrate Mitsubishi Electric UPS systems into their current Building Management Solution. The MUCM is a user-programmable protocol converter, or data concentrator, that is DIN-rail mountable, with 2 serial ports: One RS-232, one RS-485, and over 2,048 internal mailbox registers. Through the Modbus protocol interface, the UPS system’s status and alarms may be monitored through various Building Management System vendors’ software.
### 7011A Series (6kVA to 12.0kVA) Advantages

- Advanced IGBT technology in both the rectifier and inverter
- True double conversion UPS system
- Extra wide input and frequency range for complete generator compatibility
- 2-year warranty
- Front LCD display for diagnostics of the UPS system
- UL924 listed
- Custom output receptacle panels available
- Internal Maintenance Bypass Switch
- Auto-restart standard

### Specifications: 7011A Series 6kVA – 12.0kVA

<table>
<thead>
<tr>
<th>Model Type</th>
<th>7011A-60</th>
<th>7011A-80</th>
<th>7011A-100</th>
<th>7011A-12.0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Input</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>240/120V</td>
<td>208/120V</td>
<td>120/120V</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60Hz ±5%</td>
<td>50/60Hz ±5%</td>
<td>50/60Hz ±5%</td>
<td>50/60Hz ±5%</td>
</tr>
<tr>
<td>Capacity (Max)</td>
<td>6.0kVA</td>
<td>8.0kVA</td>
<td>10.0kVA</td>
<td>12.0kVA</td>
</tr>
<tr>
<td>Reflected Current THD</td>
<td>&lt; 4% at 100% load</td>
<td>&lt; 4% at 100% load</td>
<td>&lt; 4% at 100% load</td>
<td>&lt; 4% at 100% load</td>
</tr>
<tr>
<td>Circuit Protection</td>
<td>35A</td>
<td>45A</td>
<td>60A</td>
<td>70A</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>240/120V or 208/120V or 120/120V</td>
<td>240/120V or 208/120V or 120/120V</td>
<td>240/120V or 208/120V or 120/120V</td>
<td>240/120V or 208/120V or 120/120V</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60Hz ±0.01%</td>
<td>50/60Hz ±0.01%</td>
<td>50/60Hz ±0.01%</td>
<td>50/60Hz ±0.01%</td>
</tr>
<tr>
<td>Output Waveform</td>
<td>Sine wave</td>
<td>Sine wave</td>
<td>Sine wave</td>
<td>Sine wave</td>
</tr>
<tr>
<td>Transfer Time</td>
<td>Zero transfer time</td>
<td>Zero transfer time</td>
<td>Zero transfer time</td>
<td>Zero transfer time</td>
</tr>
<tr>
<td>Capacity</td>
<td>6.0kVA</td>
<td>8.0kVA</td>
<td>10.0kVA</td>
<td>12.0kVA</td>
</tr>
<tr>
<td>Rated Load Power Factor</td>
<td>0.7</td>
<td>0.7</td>
<td>0.7</td>
<td>0.7</td>
</tr>
<tr>
<td>Crest Factor Capabilities</td>
<td>300% of rated current effective value (crest factor is 3:1)</td>
<td>300% of rated current effective value (crest factor is 3:1)</td>
<td>300% of rated current effective value (crest factor is 3:1)</td>
<td>300% of rated current effective value (crest factor is 3:1)</td>
</tr>
<tr>
<td>Transient Response</td>
<td>± 3% typical load</td>
<td>± 3% typical load</td>
<td>± 3% typical load</td>
<td>± 3% typical load</td>
</tr>
<tr>
<td>± 1% at loss/return of AC power</td>
<td>± 1% at loss/return of AC power</td>
<td>± 1% at loss/return of AC power</td>
<td>± 1% at loss/return of AC power</td>
<td>± 1% at loss/return of AC power</td>
</tr>
<tr>
<td>Harmonic Distortion</td>
<td>2% or less (linear load) 1% (typical)</td>
<td>2% or less (linear load) 1% (typical)</td>
<td>2% or less (linear load) 1% (typical)</td>
<td>2% or less (linear load) 1% (typical)</td>
</tr>
<tr>
<td>System Overload</td>
<td>150% for 1 minute, 1000% for 1 cycle (with bypass available)</td>
<td>150% for 1 minute, 1000% for 1 cycle (with bypass available)</td>
<td>150% for 1 minute, 1000% for 1 cycle (with bypass available)</td>
<td>150% for 1 minute, 1000% for 1 cycle (with bypass available)</td>
</tr>
<tr>
<td>Bypass Overload</td>
<td>150% for 1 minute, 1000% for 1 cycle</td>
<td>150% for 1 minute, 1000% for 1 cycle</td>
<td>150% for 1 minute, 1000% for 1 cycle</td>
<td>150% for 1 minute, 1000% for 1 cycle</td>
</tr>
<tr>
<td>Receptacles</td>
<td>Terminal Block (optional receptacle panels available)</td>
<td>Terminal Block (optional receptacle panels available)</td>
<td>Terminal Block (optional receptacle panels available)</td>
<td>Terminal Block (optional receptacle panels available)</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size of Battery Charger</td>
<td>5A (max.)</td>
<td>5A (max.)</td>
<td>5A (max.)</td>
<td>5A (max.)</td>
</tr>
<tr>
<td>Type (Life)</td>
<td>Sealed lead-acid battery (5 years)</td>
<td>Sealed lead-acid battery (5 years)</td>
<td>Sealed lead-acid battery (5 years)</td>
<td>Sealed lead-acid battery (5 years)</td>
</tr>
<tr>
<td>Quantity</td>
<td>12V 7Ah x 18</td>
<td>12V 7Ah x 36</td>
<td>12V 7Ah x 36</td>
<td>12V 7Ah x 36</td>
</tr>
<tr>
<td>Backup Time @ 100% Load</td>
<td>10 minutes</td>
<td>15 minutes</td>
<td>12 minutes</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Recharge Time</td>
<td>90% after 8 hours, 100% after 24 hours</td>
<td>90% after 8 hours, 100% after 24 hours</td>
<td>90% after 8 hours, 100% after 24 hours</td>
<td>90% after 8 hours, 100% after 24 hours</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>216Vdc</td>
<td>216Vdc</td>
<td>216Vdc</td>
<td>216Vdc</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 40°C (32 to 104°F) optimal at 25°C</td>
<td>0 to 40°C (32 to 104°F) optimal at 25°C</td>
<td>0 to 40°C (32 to 104°F) optimal at 25°C</td>
<td>0 to 40°C (32 to 104°F) optimal at 25°C</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>5 to 95% (no condensation)</td>
<td>5 to 95% (no condensation)</td>
<td>5 to 95% (no condensation)</td>
<td>5 to 95% (no condensation)</td>
</tr>
<tr>
<td>Audible Noise</td>
<td>45db at 1m (3.3 ft) from front panel</td>
<td>45db at 1m (3.3 ft) from front panel</td>
<td>45db at 1m (3.3 ft) from front panel</td>
<td>45db at 1m (3.3 ft) from front panel</td>
</tr>
<tr>
<td>Altitude</td>
<td>Less than 4000m (12000 ft)</td>
<td>Less than 4000m (12000 ft)</td>
<td>Less than 4000m (12000 ft)</td>
<td>Less than 4000m (12000 ft)</td>
</tr>
</tbody>
</table>

### Design

- **Enclosure**: Enclosure of unit is metal meeting NEMA 1 and UL Type 1
- **Emergency Power Off**: Standard (Terminal Contacts)
7011A Series (6kVA to 12.0kVA) Advantages

- Advanced IGBT technology in both the rectifier and inverter
- True double conversion UPS system
- Extra wide input and frequency range for complete generator compatibility
- 2-year warranty
- Front LCD display for diagnostics of the UPS system
- UL924 listed
- Custom output receptacle panels available
- Internal Maintenance Bypass Switch
- Auto-restart standard

Specifications: 7011A Series 6kVA – 12.0kVA

Model Type: 7011A-60 7011A-80 7011A-100 7011A-12.0

Topology: Single Phase, True On-Line, Double Conversion


Input

- Voltage: 240/120V (1 Phase), 208/120V (2 Phase)
- Frequency: 50/60 Hz ±5%
- Capacity (Max): 6.0kVA 4.2kW

Output

- Voltage: 240/120V or 208/120V or 120/120V
- Frequency: 50/60Hz ± 0.01%
- Output Waveform: Sine wave
- Transfer Time: Zero transfer time
- Capacity: 6.0kVA 4.2kW 50A

Rated Load Power Factor: 0.7

Crest Factor Capabilities: 300% of rated current effective value (crest factor is 3:1)

Transient Response: ± 3% typical load
  ± 1% at loss/return of AC power

Harmonic Distortion: 2% or less (linear load) 1% (typical)

System Overload: 150% for 1 minute, 1000% for 1 cycle (with bypass available)

Bypass Overload: 150% for 1 minute, 1000% for 1 cycle

Receptacles: Terminal Block (optional receptacle panels available)

Battery

- Size of Battery Charger: 5A (max.)
- Type (Life): Sealed lead-acid battery (5 years)
- Quantity: 12V 7Ah x 18
  12V 7Ah x 36
  12V 7Ah x 36
  12V 7Ah x 36
- Backup Time @ 100% Load: 10 minutes
  15 minutes
  12 minutes
  10 minutes
- Recharge Time: 90% after 8 hours, 100% after 24 hours
- Nominal Voltage: 216Vdc

Environment

- Operating Temperature: 0 to 40°C (32 to 104°F) optimal at 25°C
- Operating Humidity: 5 to 95% (no condensation)
- Audible Noise: 45db at 1m (3.3 ft) from front panel
- Altitude: Less than 4000m (12000 ft)

Design

- Enclosure: Enclosure of unit is metal meeting NEMA 1 and UL Type 1
- Emergency Power Off: Standard (Terminal Contacts)

Mitsubishi Electric Power Products, Inc.
Uninterruptible Power Supplies (UPS) Division
547 Keystone Drive • Warrendale, PA 15086
Phone: 724-772-2455 • Fax: 724-779-3046

www.meppi.com

GS-07F-9526G