Aimtec
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August 24th, 2026

Product Change Notification

PCN #: AM20260824-1

Issue Date: August 24th, 2026

Products series affected: AM1GH-LPZ series

Product list: AM1GH-1203SH30LPZ, AM1GH-1205SH30LPZ, AM1GH-1212SH30LPZ, AM1GH-1215SH30LPZ, AM1GH-2403SH30LPZ, AM1GH-2405SH30LPZ, AM1GH-2412SH30LPZ, AM1GH-2415SH30LPZ, AM1GH-4803SH30LPZ, AM1GH-4805SH30LPZ, AM1GH-4812SH30LPZ, AM1GH-4815SH30LPZ, AM1GH-1205DH30LPZ, AM1GH-1212DH30LPZ, AM1GH-1215DH30LPZ, AM1GH-2405DH30LPZ, AM1GH-2412DH30LPZ, AM1GH-2415DH30LPZ, AM1GH-4805DH30LPZ, AM1GH-4812DH30LPZ, AM1GH-4815DH30LPZ.

Effective Date: All part numbers listed in the above product list from the AM1GH-LPZ series shipping from Aimtec as of the issue date of this PCN.

Description of change: The AM1GH-LPZ series has been updated as described in ANNEX 1 and ANNEX 2.

ANNEX 1 applies to all part numbers listed in the above product list. The affected models have been updated with revised efficiency, remote on/off control, voltage accuracy, line regulation, load regulation, transient response deviation, transient recovery time, ripple & noise, isolation capacitance, switching frequency, operating temperature, electrostatic discharge immunity, derating, typical application circuit and EMC recommended circuit specifications.

ANNEX 2 provides details of parameter specific updates. Each change is applicable only to the identified models or model groups. The revised specifications for input current, maximum capacitive load and input reflected ripple current are detailed in ANNEX 2.

Reason for change: These changes have been implemented due to the EOL of critical raw materials.

Customer Impact: Certain customers may be impacted by these changes in the specifications. Aimtec recommends reviewing the datasheet and testing samples as necessary.

Package Diagram: N/A

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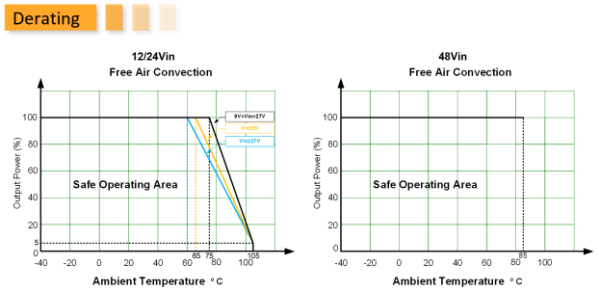
ANNEX 1

Changes applicable to all part numbers listed in the product list

Parameter	Updated AM1GH-LPZ	OLD AM1GH-LPZ
Efficiency	71~78% typ.	74~81% typ.
Remote ON/OFF control	ON: pin open or logic high (2.7V ~ 12V) OFF: pin grounded or logic low (0V ~ 1.2V) Ctrl pin current: 6mA typ. 10mA max.	ON: pin open or logic high (3.5V ~ 12V) OFF: pin grounded or logic low (0V ~ 0.7) Ctrl pin current: 5mA typ. 10mA max.
Voltage accuracy	5~100% load, positive output: ±1% typ. ±3% max. 5~100% load, negative output: ±3% typ. ±5% max.	Full load, 3.3/5V output: ±2% typ. ±5% max. Full load, others: ±1% typ. ±3% max.
Line regulation	Full load, positive output: ±0.5% typ. ±1.0% max. Full load, negative output: ±1.0% typ. ±2.0% max.	Full load, positive output: ±0.2% typ. ±0.5% max. Full load, negative output: ±0.5% typ. ±1.0% max.
Load regulation	5~100% load: ±1.0% typ. ±2.0% max. 0~100% load: ±2.0% typ. ±4.0% max.	5~100% load: ±0.5% typ. ±1.0% max.
Transient response deviation	25% load step, 3.3/5Vout models: ±5% typ. ±8% max. 25% load step, others: ±3% typ. ±5% max.	25% load step: ±2.5% typ. ±5% max.
Transient recovery time	25% load step: 2000µs max.	25% load step: 3000µs max.
Ripple & noise	20MHz bandwidth, 5~100% load: 80mV p-p typ.	20MHz bandwidth: 50mV p-p typ.
Isolation capacitance	1000pF typ.	25pF typ.
Switching frequency	Full load: 300KHz typ.	Full load: 250KHz typ.
Operating temperature	-40 to +105°C	-40 to +85°C
Electrostatic discharge immunity	IEC/EN 61000-4-2 Contact ±4KV, Criteria B	IEC/EN 61000-4-2 Contact ±6KV, Criteria B
Derating		N/A

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<td>Typpical application circuit</td>
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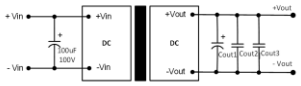
Typical application circuit

<table>
<tr><th>Vout</th><th>Cout1</th><th>Cout2</th><th>Cout3</th></tr>
<tr><td>3.3V, 5V, 6V</td><td>100uF/16V</td><td>10uF/50V</td><td>0.1uF/16V</td></tr>
<tr><td>9V, 12V, 15V</td><td>100uF/25V</td><td>10uF/50V</td><td>0.1uF/25V</td></tr>
<tr><td>18V, 24V, 28V</td><td>100uF/50V</td><td>10uF/50V</td><td>0.1uF/50V</td></tr>
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For dual output models, the recommended output values apply to each output.
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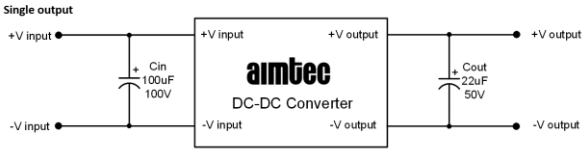
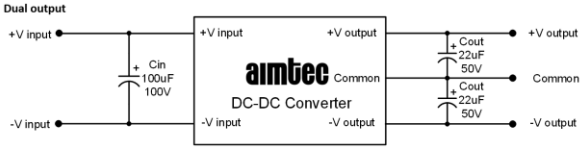
<td>
Typical application circuit
Single output


Dual output


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<tr>
<td>EMC recommended circuit</td>
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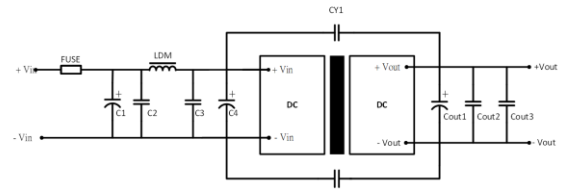
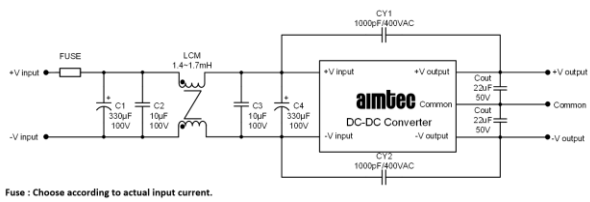


<table>
<tr><th>Component</th><th>12Vin</th><th>24Vin</th><th>48Vin</th></tr>
<tr><td>C1, C4</td><td>680μF, 25V</td><td>330μF, 50V</td><td>330μF, 100V</td></tr>
<tr><td>C2, C3</td><td>10μF, 50V</td><td>10μF, 50V</td><td>10μF, 100V</td></tr>
<tr><td>Cout1, Cout2, Cout3</td><td colspan="3">Refer to Typical Application Circuit</td></tr>
<tr><td>LDM</td><td>12μH</td><td>12μH</td><td>12μH</td></tr>
<tr><td>CY1, CY2 (1600VDC models)</td><td>2.2nF, 2kV</td><td>2.2nF, 2kV</td><td>2.2nF, 2kV</td></tr>
<tr><td>CY1, CY2 (3000VDC models)</td><td>2.2nF, 3kV</td><td>2.2nF, 3kV</td><td>2.2nF, 3kV</td></tr>
</table>
FUSE：Choose according to actual input current
</td>
<td>
EMC recommended circuit
The recommended circuits are the same for single and dual output models


Fuse : Choose according to actual input current.
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ANNEX 2

Changes applicable to specific models or model groups

Parameter	Updated AM1GH-LPZ	OLD AM1GH-LPZ
Input current Full/No load	12Vin models: 113/20mA typ. 24Vin models: 60/15mA typ. 24Vin models: 29/5mA typ.	12Vin models: 281/40mA typ. 24Vin models: 111/15mA typ. 24Vin models: 55/6mA typ.
Maximum capacitive load	AM1GH-1203SH30LPZ: 2400μF AM1GH-2403SH30LPZ: 2400μF AM1GH-4803SH30LPZ: 2400μF	AM1GH-1203SH30LPZ: 2400μF AM1GH-2403SH30LPZ: 2400μF AM1GH-4803SH30LPZ: 2400μF
Input reflected ripple current	12Vin models: 30mA max. 24/48Vin models: 55mA max.	12Vin models: 15mA max. 24/48Vin models: 15mA max.