

Ampere Forge LLC.

Authorized distributor by Xi'an Corso Electronic Technology Co., Ltd.

High Voltage Power Supply Product Catalog

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KDHM-A Series — Ultra-Miniature High Voltage Power Supply Module

Product Features

- Ultra-miniature size, international standard pin spacing
- Wide input voltage range
- Low ripple, high-precision output
- 0~±600V continuously adjustable output voltage
- Fast transient response
- Output voltage adjustable via an external DC 0~2.5V control signal
- Built-in +2.5V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit protection
- Full metal shielding, sealed resin encapsulation; shock-resistant, moisture-proof, radiation-shielded



Technical Parameters

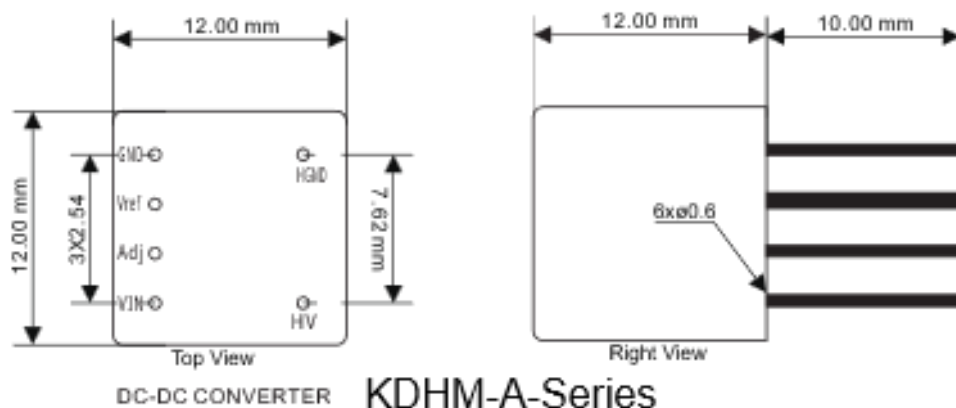
Product Grade	G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±100V, 0~±200V, 0~±300V, 0~±400V, 0~±500V, etc.
Output Current	DC 0.5mA~2mA
Output Ripple	≤10mVp-p~50mVp-p (full input voltage range, full load range)
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤0.1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +2.5V
Protection Function	Short-circuit protection
Operating Temperature	G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤40PPM/°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	Fully enclosed, high-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	12mm × 12mm × 12mm
Weight	5±1g

Model List

Input Voltage (V) Nominal (Range)	Input Current (mA) No Load	Input Current (mA) Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤8	≤120	KDHM-A-5S100P-V	100	2	≤10mV
5V (4.5~7V)	≤8	≤130	KDHM-A-5S100N-V	100	2	≤10mV
5V (4.5~7V)	≤15	≤130	KDHM-A-5S200P-V	200	1	≤10mV
5V (4.5~7V)	≤13	≤80	KDHM-A-5S200N-V	200	1	≤10mV

Input Voltage (V) Nominal (Range)	Input Current (mA) No Load	Input Current (mA) Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
12V (11~16V)	≤6	≤70	KDHM-A-12S100P-V	100	2	≤10mV
12V (11~16V)	≤7	≤50	KDHM-A-12S100N-V	100	2	≤10mV
12V (11~16V)	≤13	≤50	KDHM-A-12S200P-V	200	1	≤10mV
12V (11~16V)	≤14	≤50	KDHM-A-12S200N-V	200	1	≤10mV
24V (21~28V)	≤11	≤40	KDHM-A-24S400P-V	400	0.5	≤10mV
24V (21~28V)	≤12	≤40	KDHM-A-24S400N-V	400	0.5	≤10mV
24V (21~28V)	≤13	≤40	KDHM-A-24S500P-V	500	0.5	≤10mV
24V (21~28V)	≤15	≤40	KDHM-A-24S500N-V	500	0.5	≤10mV

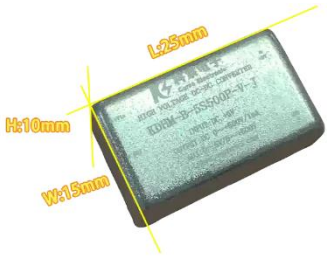
Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-B Series — Ultra-Miniature High Voltage Power Supply Module

Product Features

- Ultra-miniature size, international standard pin spacing
- Wide input voltage range
- Low ripple, high-precision output
- 0~±1kV continuously adjustable output voltage
- Fast transient response
- Output voltage adjustable via an external DC 0~5V control signal
- Built-in reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit protection
- Full metal shielding, sealed resin encapsulation; shock-resistant, moisture-proof, radiation-shielded



Technical Parameters

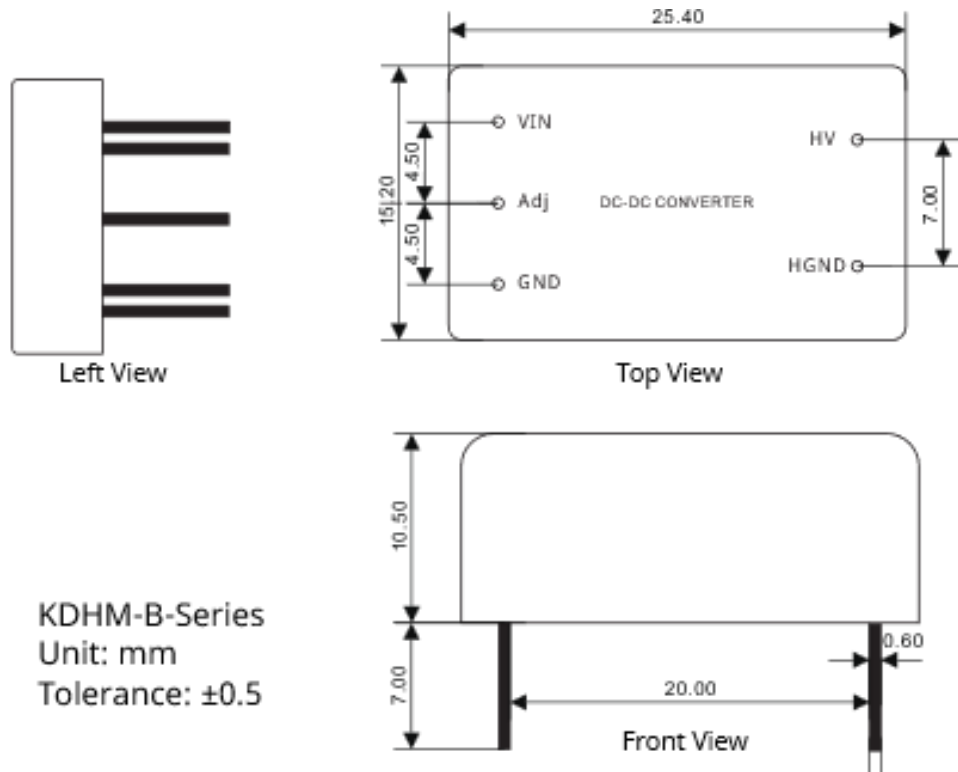
Product Grade	G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±70V, 0~±100V, 0~±200V, 0~±300V, 0~±500V, 0~±1000V, etc.
Output Current	DC 0.5mA~3mA
Output Ripple	≤5mVp-p~100mVp-p (full input voltage range, full load range)
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤0.1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, resistor-control
Protection Function	Short-circuit protection
Operating Temperature	G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤40PPM/°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	Fully enclosed, high-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	25.4mm × 15.2mm × 10.5mm
Weight	11±2g

Model List

Input Voltage (V) Nominal (Range)	Input Current (mA) No Load	Input Current (mA) Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)	Adjustment Method
5V (4.5~7V)	≤10	≤155	KDHM-B-5S70P3-V	70	3	≤15mV	Voltage
5V (4.5~7V)	≤10	≤155	KDHM-B-5S70N3-V	70	3	≤15mV	Voltage
5V (4.5~7V)	≤10	≤155	KDHM-B-5S70P3-R	70	3	≤15mV	Resistor

Input Voltage (V) Nominal (Range)	Input Current (mA) No Load	Input Current (mA) Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)	Adjustment Method
5V (4.5~7V)	≤10	≤155	KDHM-B- 5S70N3-R	70	3	≤15mV	Resistor
12V (11~16V)	≤15	≤101	KDHM-B- 12S70P3-V	70	3	≤6mV	Voltage
12V (11~16V)	≤15	≤101	KDHM-B- 12S70N3-V	70	3	≤6mV	Voltage
12V (11~16V)	≤15	≤102	KDHM-B- 12S100P3-V	100	3	≤10mV	Voltage
12V (11~16V)	≤15	≤102	KDHM-B- 12S100N3-V	100	3	≤10mV	Voltage
24V (21~28V)	≤10	≤78	KDHM-B- 24S100P3-V	100	3	≤10mV	Voltage
24V (21~28V)	≤20	≤114	KDHM-B- 24S200N2-R	200	2	≤10mV	Resistor
24V (21~28V)	≤25	≤79	KDHM-B- 24S300N-R	300	1	≤8mV	Resistor
24V (21~28V)	≤25	≤79	KDHM-B- 24S500P-V	500	1	≤14mV	Voltage

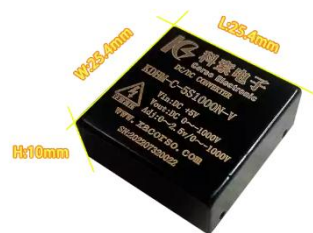
Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-C Series — Miniature High Voltage Power Supply Module

Product Features

- Ultra-small size, international standard pin spacing
- Wide input voltage range
- Low ripple, high-precision output
- 0~±1200V continuously adjustable output voltage
- Fast transient response
- Output voltage adjustable via an external DC 0~2.5V/5V control signal
- Built-in +2.5V/5V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit protection



Technical Parameters

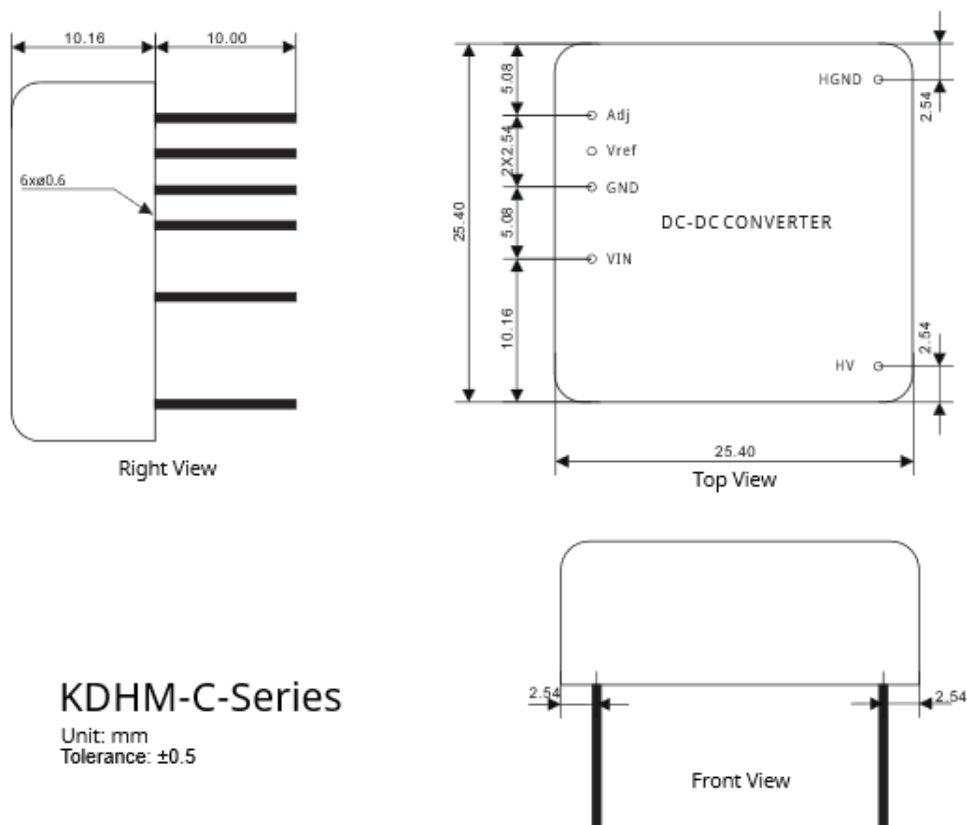
Product Grade	M: Commercial grade G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±200V, 0~±400V, 0~±500V, 0~±600V, 0~±800V, 0~±1200V, etc.
Output Current	DC 0.5mA~1mA
Output Ripple	≤10mVp-p~50mVp-p (full input voltage range, full load range)
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤0.1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +5V (equal to +2.5V when 5V input)
Protection Function	Short-circuit protection
Operating Temperature	M: 0°C~+50°C G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤40PPM/°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	Fully enclosed, high-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	25.4mm × 25.4mm × 10.16mm
Weight	16±2g

Model List

Input Voltage (V) Nominal (Range)	Input Current (mA) No Load	Input Current (mA) Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤30	≤250	KDHM-C-5S70P-V	70	5	≤20
5V (4.5~7V)	≤30	≤250	KDHM-C-5S70N-V	70	5	≤20
5V (4.5~7V)	≤30	≤135	KDHM-C-5S100P-V	100	1	≤10
5V (4.5~7V)	≤30	≤135	KDHM-C-5S100N-V	100	1	≤10
12V (11~16V)	≤30	≤60	KDHM-C-12S100P-V	100	1	≤7

Input Voltage (V) Nominal (Range)	Input Current (mA) No Load	Input Current (mA) Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
12V (11~16V)	≤30	≤60	KDHM-C-12S100N-V	100	1	≤7
12V (11~16V)	≤30	≤66	KDHM-C-12S200P-V	200	1	≤10
12V (11~16V)	≤30	≤66	KDHM-C-12S200N-V	200	1	≤10
24V (21~28V)	≤20	≤51	KDHM-C-24S100P-V	100	1	≤10
24V (21~28V)	≤20	≤51	KDHM-C-24S100N-V	100	1	≤10
24V (21~28V)	≤40	≤53	KDHM-C-24S200P-V	200	1	≤12
24V (21~28V)	≤40	≤53	KDHM-C-24S200N-V	200	1	≤12

Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-C-Series

Unit: mm
Tolerance: ±0.5

KDHM-D Series — Miniature High Voltage Power Supply Module

Product Features

- Ultra-small size
- Wide input voltage range
- $\leq 0.02\%$ ultra-low ripple
- High-precision output
- $0\sim\pm 2400\text{V}$ continuously adjustable output voltage
- Output voltage adjustable via an external DC $0\sim 2.5\text{V}/5\text{V}$ control signal
- Built-in $+2.5\text{V}/5\text{V}$ reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit protection
- High-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided metal shielding



Technical Parameters

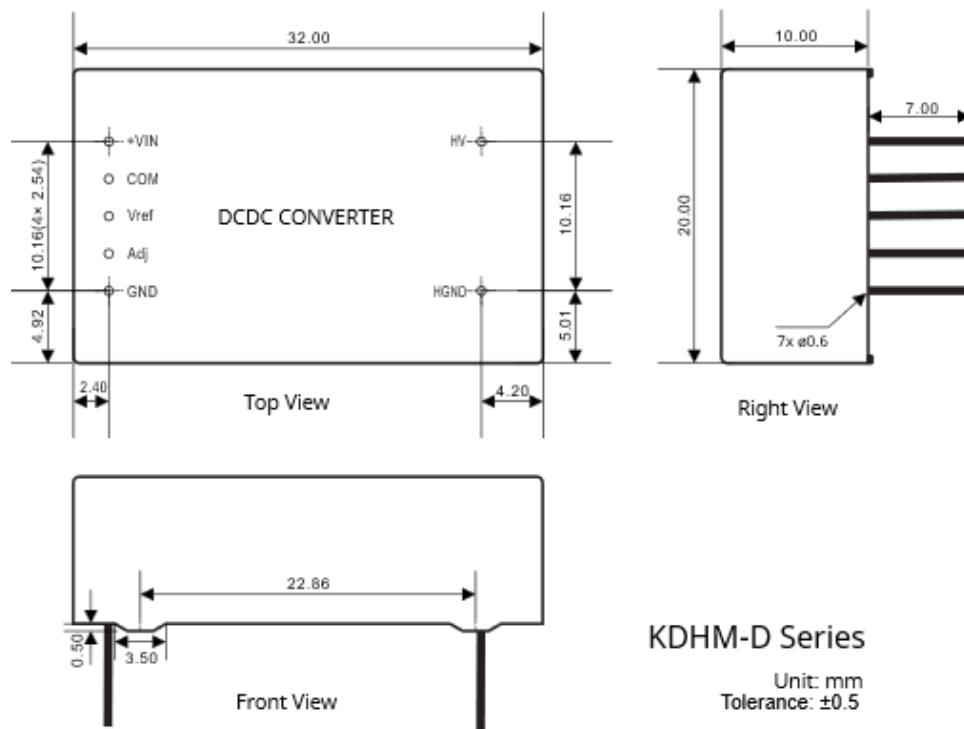
Product Grade	M: Commercial grade G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC $0\sim\pm 1200\text{V}$, $0\sim\pm 1500\text{V}$, $0\sim\pm 1800\text{V}$, $0\sim\pm 2000\text{V}$, etc.
Output Current	DC $0.25\text{mA}\sim 2\text{mA}$
Output Ripple	$\leq 0.02\%$ (full input voltage range, full load range)
Output Stability	$\leq 0.5\%$ (input voltage within nominal range, load varying $20\%\sim 80\%$)
Load Regulation	$\leq 0.1\%$ (input voltage within nominal range, load varying $0\%\sim 100\%$)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC $+5\text{V}$ (equal to $+2.5\text{V}$ when 5V input)
Protection Function	Short-circuit protection
Operating Temperature	M: $0^\circ\text{C}\sim 50^\circ\text{C}$ G: $-20^\circ\text{C}\sim 65^\circ\text{C}$ J: $-40^\circ\text{C}\sim 85^\circ\text{C}$
Storage Temperature	$-55^\circ\text{C}\sim 125^\circ\text{C}$
Temperature Coefficient	$\leq 0.1\%/^\circ\text{C}$
Operating Humidity	$20\%\sim 90\%\text{RH}$
Output Interface Type	Gold-plated pin type
Housing & Packaging	High-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided metal shielding
Dimensions	$32\text{mm} \times 20\text{mm} \times 10\text{mm}$
Weight	$16\pm 2\text{g}$

Model List

Input Voltage (V) Nominal (Range)	Input Current (mA) No Load	Input Current (mA) Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤ 45	≤ 360	KDHM-D-5S1000P-V	1000	1	≤ 50
5V (4.5~7V)	≤ 45	≤ 360	KDHM-D-5S1000N-V	1000	1	≤ 50
5V (4.5~7V)	≤ 45	≤ 380	KDHM-D-5S1200P-V	1200	1	≤ 100

Input Voltage (V) Nominal (Range)	Input Current (mA) No Load	Input Current (mA) Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤45	≤380	KDHM-D-5S1200N-V	1200	1	≤100
12V (11~16V)	≤35	≤160	KDHM-D-12S1000P-V	1000	1	≤50
12V (11~16V)	≤35	≤160	KDHM-D-12S1000N-V	1000	1	≤50
12V (11~16V)	≤40	≤180	KDHM-D-12S1200P-V	1200	1	≤70
12V (11~16V)	≤40	≤180	KDHM-D-12S1200N-V	1200	1	≤70
24V (21~28V)	≤35	≤130	KDHM-D-24S1000P-V	1000	1	≤50
24V (21~28V)	≤35	≤130	KDHM-D-24S1000N-V	1000	1	≤50
24V (21~28V)	≤40	≤150	KDHM-D-24S1200P-V	1200	1	≤70
24V (21~28V)	≤40	≤150	KDHM-D-24S1200N-V	1200	1	≤70

Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-D1 Series — Miniature High Voltage Power Supply Module

Product Features

- Ultra-small size, international standard pin spacing
- Wide input voltage range
- Low ripple, high-precision output
- 0~±2500V continuously adjustable output voltage
- Fast transient response
- Output voltage adjustable via an external DC 0~2.5V control signal
- Built-in +2.5V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit and overcurrent protection
- High-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided shielding



Technical Parameters

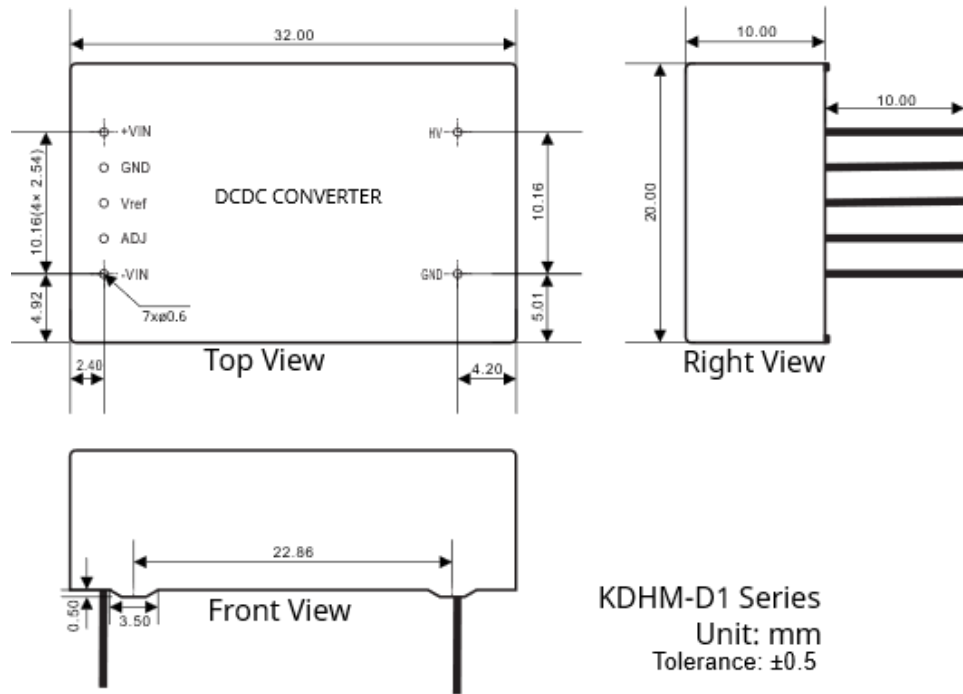
Product Grade	M: Commercial grade G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±1000V, 0~±1200V, 0~±1500V, 0~±2000V, 0~±2500V, etc.
Output Current	DC 0.2mA~10mA
Output Ripple	≤0.01% (full input voltage range, full load range)
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤0.1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +2.5V
Protection Function	Overcurrent protection, short-circuit protection
Operating Temperature	M: 0°C~+50°C G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤0.1%/°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type (standard DIP-24IC pin spacing)
Housing & Packaging	High-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	32mm × 20mm × 10mm
Weight	16±2g

Model List

Input Voltage (V) Nominal (Range)	Input Current (mA) No Load	Input Current (mA) Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Output Polarity	Ripple (mVp-p)
5V (4.5~7V)	≤10	≤400	KDHM-D1- 5S100P-V	100	10	P	≤10mV
5V (4.5~7V)	≤10	≤270	KDHM-D1- 5S100N-V	100	10	N	≤10mV

Input Voltage (V) Nominal (Range)	Input Current (mA) No Load	Input Current (mA) Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Output Polarity	Ripple (mVp-p)
5V (4.5~7V)	≤10	≤260	KDHM-D1- 5S200P-V	200	5	P	≤10mV
5V (4.5~7V)	≤10	≤260	KDHM-D1- 5S200N-V	200	5	N	≤10mV
12V (11~16V)	≤40	≤180	KDHM-D1- 12S100P-V	100	10	P	≤15mV
12V (11~16V)	≤40	≤180	KDHM-D1- 12S100N-V	100	10	N	≤15mV
12V (11~16V)	≤20	≤130	KDHM-D1- 12S200P-V	200	5	P	≤20mV
12V (11~16V)	≤20	≤130	KDHM-D1- 12S200N-V	200	5	N	≤20mV
24V (21~28V)	≤10	≤120	KDHM-D1- 24S100P-V	100	10	P	≤10mV
24V (21~28V)	≤10	≤120	KDHM-D1- 24S100N-V	100	10	N	≤10mV
24V (21~28V)	≤20	≤90	KDHM-D1- 24S200P-V	200	5	P	≤10mV
24V (21~28V)	≤20	≤90	KDHM-D1- 24S200N-V	200	5	N	≤10mV

Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-D3 Series — High-Precision Miniature High Voltage Power Supply Module

Product Features

- Ultra-small size, international standard pin spacing
- Wide input voltage range
- Low ripple, high-precision output
- 0~±300V continuously adjustable output voltage
- Fast transient response
- Optional custom external DC 0~5V voltage-regulation output function
- Built-in short-circuit and overcurrent protection
- 5-sided metal shielding, sealed resin encapsulation, shock-resistant, moisture-proof



Technical Parameters

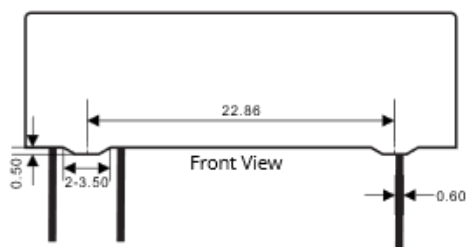
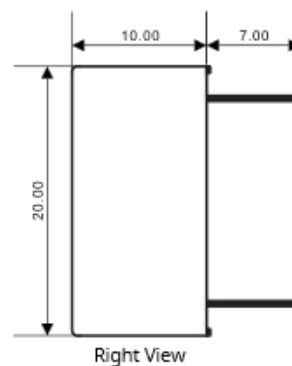
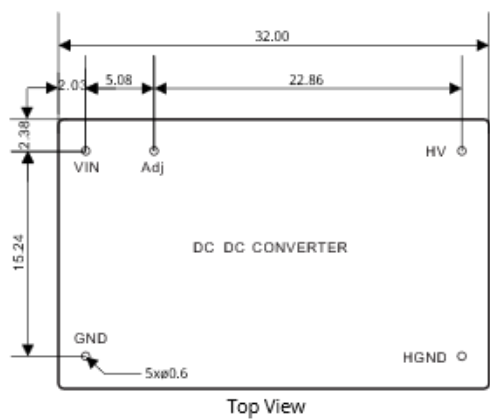
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±100V, 0~±200V, 0~±300V
Output Current	DC 1mA~10mA
Output Ripple	≤10mVp-p~50mVp-p (full input voltage range, full load range)
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%); common-ground type: ≤1% (input voltage within nominal range, load varying 0%~100%)
Protection Function	Overcurrent protection, short-circuit protection
Operating Temperature	G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	±0.5%/°C (ambient temperature -10°C~+50°C)
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	High-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	32mm × 20mm × 10mm
Weight	16±2g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤30mA	≤200mA	KDHM-D3-5S100P2-V	+100V	2mA	≤10mV
5V (4.5~7V)	≤30mA	≤200mA	KDHM-D3-5S100N2-V	-100V	2mA	≤10mV
5V (4.5~7V)	≤200mA	≤1.2A	KDHM-D3-5S300P10-V	+300V	10mA	≤50mV
5V (4.5~7V)	≤200mA	≤1.2A	KDHM-D3-5S300N10-V	-300V	10mA	≤50mV
12V (11~16V)	≤30mA	≤80mA	KDHM-D3-12S100P2-V	+100V	2mA	≤10mV

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
12V (11~16V)	≤30mA	≤80mA	KDHM-D3- 12S100N2-V	-100V	2mA	≤10mV
12V (11~16V)	≤80mA	≤500mA	KDHM-D3- 12S300P10-V	+300V	10mA	≤50mV
12V (11~16V)	≤80mA	≤500mA	KDHM-D3- 12S300N10-V	-300V	10mA	≤50mV
24V (21~28V)	≤30mA	≤90mA	KDHM-D3- 24S100P10-V	+100V	10mA	≤30mV
24V (21~28V)	≤30mA	≤90mA	KDHM-D3- 24S100N10-V	-100V	10mA	≤30mV
24V (21~28V)	≤40mA	≤250mA	KDHM-D3- 24S300P10-V	+300V	10mA	≤50mV
24V (21~28V)	≤40mA	≤250mA	KDHM-D3- 24S300N10-V	-300V	10mA	≤50mV

Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-D3 Series
Unit: mm
Tolerance: ±0.5

KDHM-D5 Series — Miniature High Voltage Power Supply Module

Product Features

- Ultra-small size
- Wide input voltage range
- $\leq 0.01\%$ ultra-low ripple
- $0\sim\pm 2400\text{V}$ continuously adjustable output voltage
- Fast transient response
- Output voltage adjustable via an external DC $0\sim 2.5\text{V}$ control signal
- Built-in $+2.5\text{V}$ reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit and overcurrent protection
- High-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided shielding



Technical Parameters

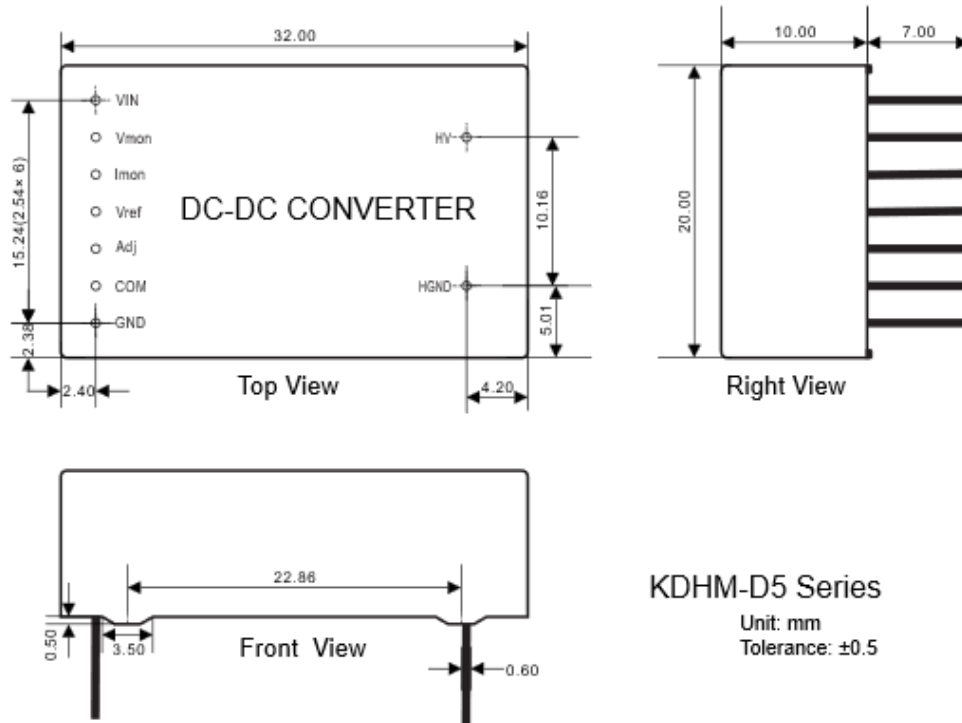
Product Grade	M: Commercial grade G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC $0\sim\pm 1000\text{V}$, $0\sim\pm 1200\text{V}$, $0\sim\pm 1500\text{V}$, $0\sim\pm 2000\text{V}$, $0\sim\pm 2400\text{V}$, etc.
Output Current	DC $0\sim 4\text{mA}$
Output Ripple	$\leq 0.01\%$ (full input voltage range, full load range)
Output Stability	$\leq 0.5\%$ (input voltage within nominal range, load varying $20\%\sim 80\%$)
Load Regulation	$\leq 0.1\%$ (input voltage within nominal range, load varying $0\%\sim 100\%$)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC $+2.5\text{V}$
Protection Function	Overcurrent protection, short-circuit protection
Operating Temperature	M: $0^{\circ}\text{C}\sim 50^{\circ}\text{C}$ G: $-20^{\circ}\text{C}\sim 65^{\circ}\text{C}$ J: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$
Storage Temperature	$-55^{\circ}\text{C}\sim 125^{\circ}\text{C}$
Temperature Coefficient	$\leq 0.1\%/^{\circ}\text{C}$
Operating Humidity	$20\%\sim 90\%\text{RH}$
Output Interface Type	Gold-plated pin type (standard DIP-24IC pin spacing)
Housing & Packaging	High-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	$32\text{mm} \times 20\text{mm} \times 10\text{mm}$
Weight	$16\pm 2\text{g}$

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)	Output Power	Sampling Function
5V (4.5~7V)	$\leq 70\text{mA}$	$\leq 640\text{mA}$	KDHM-D5- SS100P10-V	+100V	10mA	$\leq 50\text{mV}$	3W	
5V (4.5~7V)	$\leq 80\text{mA}$	$\leq 720\text{mA}$	KDHM-D5- SS100P10-VI	+100V	10mA	$\leq 50\text{mV}$	3W	✓

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)	Output Power	Sampling Function
5V (4.5~7V)	≤80mA	≤630mA	KDHM-D5- 5S100N10-V	-100V	10mA	≤50mV	3W	
5V (4.5~7V)	≤70mA	≤630mA	KDHM-D5- 5S100N10-VI	-100V	10mA	≤50mV	3W	✓
12V (11~16V)	≤30mA	≤200mA	KDHM-D5- 12S100P10-V	+100V	10mA	≤50mV	3W	
12V (11~16V)	≤30mA	≤200mA	KDHM-D5- 12S100P10-VI	+100V	10mA	≤50mV	3W	✓
12V (11~16V)	≤80mA	≤170mA	KDHM-D5- 12S100N10-V	-100V	10mA	≤50mV	3W	
12V (11~16V)	≤70mA	≤160mA	KDHM-D5- 12S100N10-VI	-100V	10mA	≤50mV	3W	✓
24V (21~28V)	≤30mA	≤100mA	KDHM-D5- 24S100P10-V	+100V	10mA	≤50mV	3W	
24V (21~28V)	≤20mA	≤30mA	KDHM-D5- 24S100P10-VI	+100V	10mA	≤50mV	3W	✓
24V (21~28V)	≤30mA	≤75mA	KDHM-D5- 24S100N10-V	-100V	10mA	≤50mV	3W	
24V (21~28V)	≤30mA	≤80mA	KDHM-D5- 24S100N10-VI	-100V	10mA	≤50mV	3W	✓

Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-E Series — High Voltage Power Supply Module

Product Features

- $\leq 0.01\%$ ultra-low ripple
- $0\sim\pm 6\text{kV}$ continuously adjustable super-high output voltage
- High-precision voltage output sampling and current output sampling
- Output voltage adjustable via an external DC $0\sim 5\text{V}$ control signal
- Built-in $+5\text{V}$ reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit and overcurrent protection
- High-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided shielding
- 10kV high-voltage silicone lead wire



Technical Parameters

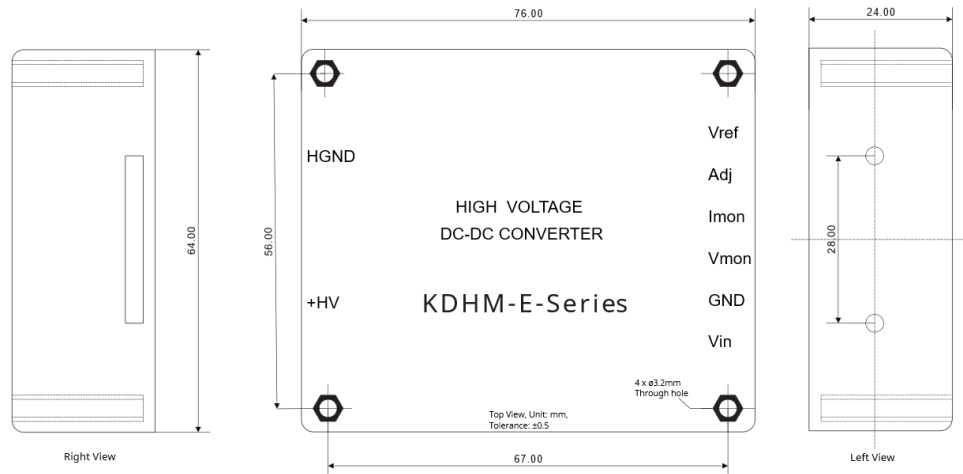
Input Voltage	DC 12V (11~16V), 24V (21~28V)
Output Voltage	DC $0\sim\pm 1\text{kV}$, $0\sim\pm 2\text{kV}$, $0\sim\pm 3\text{kV}$, $0\sim\pm 5\text{kV}$, $0\sim\pm 6\text{kV}$, etc.
Output Current	DC $1\text{mA}\sim 30\text{mA}$
Output Ripple	$\leq 0.01\%$ (full input voltage range, full load range)
Current Sampling Output (Optional)	DC $0\sim 5\text{V}$ corresponds to $0\sim$ rated output current
Voltage Sampling Output (Optional)	DC $0\sim 5\text{V}$ corresponds to $0\sim$ rated high-voltage output
Output Stability	$\leq 0.5\%$ (input voltage within nominal range, load varying $20\%\sim 80\%$)
Load Regulation	$\leq 0.5\%$ (input voltage within nominal range, load varying $0\%\sim 100\%$)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC $+5\text{V}$
Operating Temperature	$-20^{\circ}\text{C}\sim +65^{\circ}\text{C}$
Storage Temperature	$-55^{\circ}\text{C}\sim +125^{\circ}\text{C}$
Temperature Coefficient	$\leq 0.1\%/^{\circ}\text{C}$
Operating Humidity	$20\%\sim 90\%\text{RH}$
Output Interface Type	High-voltage silicone lead-wire type
Housing & Packaging	High-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	$76\text{mm} \times 64\text{mm} \times 24\text{mm}$
Weight	Copper shell: $295\pm 5\text{g}$ Aluminum shell: $255\pm 5\text{g}$

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
12V (11~16V)	$\leq 120\text{mA}$	$\leq 790\text{mA}$	KDHM-E-12S6000P1-V	6000	1	$\leq 200\text{mV}$
12V (11~16V)	$\leq 120\text{mA}$	$\leq 790\text{mA}$	KDHM-E-12S6000N1-V	6000	1	$\leq 180\text{mV}$
12V (11~16V)	$\leq 160\text{mA}$	$\leq 1300\text{mA}$	KDHM-E-12S6000P2-V	6000	2	$\leq 200\text{mV}$

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
12V (11~16V)	≤160mA	≤1300mA	KDHM-E-12S6000N2-V	6000	2	≤200mV
12V (11~16V)	≤100mA	≤1620mA	KDHM-E-12S5000P3-V	5000	3	≤320mV
12V (11~16V)	≤100mA	≤1630mA	KDHM-E-12S5000N3-V	5000	3	≤320mV
24V (21~28V)	≤80mA	≤750mA	KDHM-E-24S4000P3-V	4000	3	≤340mV
24V (21~28V)	≤90mA	≤750mA	KDHM-E-24S4000N3-V	4000	3	≤360mV
24V (21~28V)	≤60mA	≤350mA	KDHM-E-24S3000P2-V	3000	2	≤240mV
24V (21~28V)	≤60mA	≤350mA	KDHM-E-24S3000N2-V	3000	2	≤240mV
24V (21~28V)	≤50mA	≤1130mA	KDHM-E-24S2000P10-V	2000	10	≤290mV
24V (21~28V)	≤40mA	≤1180mA	KDHM-E-24S2000N10-V	2000	10	≤270mV

Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-E1 Series — Isolated High Voltage Power Supply Module

Product Features

- $\leq 0.01\%$ ultra-low ripple
- $0\sim\pm 5\text{kV}$ continuously adjustable high output voltage
- DC 3kV high isolation voltage
- High-precision voltage output sampling and current output sampling
- Output voltage adjustable via an external DC $0\sim 5\text{V}$ control signal
- Built-in +5V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit and overcurrent protection
- High-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided shielding
- High-voltage silicone lead wire



Technical Parameters

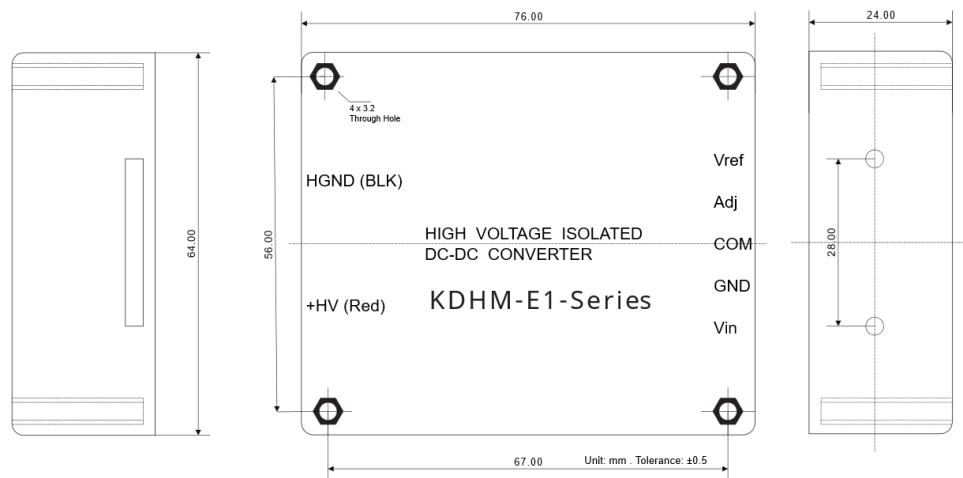
Input Voltage	DC 12V (11~16V), 24V (21~28V)
Output Voltage	DC $0\sim\pm 500\text{V}$, $0\sim\pm 1000\text{V}$, $0\sim\pm 2000\text{V}$, $0\sim\pm 3000\text{V}$, etc.
Output Current	DC 2mA~40mA
Current Sampling Output (Optional)	DC $0\sim 5\text{V}$ corresponds to $0\sim$ rated output current
Voltage Sampling Output (Optional)	DC $0\sim 5\text{V}$ corresponds to $0\sim$ rated high-voltage output
Output Stability	$\leq 0.5\%$ (input voltage within nominal range, load varying 20%~80%)
Load Regulation	$\leq 1\%$ (input voltage within nominal range, load varying 0%~100%)
Isolation Voltage	3000V
Isolation Resistance	500M Ω
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +5V
Protection Function	Overcurrent protection, short-circuit protection
Operating Temperature	$-20^{\circ}\text{C}\sim 65^{\circ}\text{C}$
Storage Temperature	$-55^{\circ}\text{C}\sim 125^{\circ}\text{C}$
Temperature Coefficient	$\leq 0.1\%/^{\circ}\text{C}$
Operating Humidity	20%~90%RH
Output Interface Type	High-voltage silicone lead-wire type
Housing & Packaging	High-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	76mm $\times$ 64mm $\times$ 24mm
Weight	Copper shell: 295 $\pm$ 5g Aluminum shell: 255 $\pm$ 5g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
12V (11~16V)	$\leq 150\text{mA}$	$\leq 2.3\text{A}$	KDHM-E1-12S500P-40	500	40	$\leq 50\text{mV}$

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
12V (11~16V)	≤150mA	≤2.3A	KDHM-E1-12S500N-40	500	40	≤50mV
12V (11~16V)	≤80mA	≤1.1A	KDHM-E1-12S2000P-5	2000	5	≤200mV
12V (11~16V)	≤80mA	≤1.1A	KDHM-E1-12S2000N-5	2000	5	≤200mV
12V (11~16V)	≤60mA	≤700mA	KDHM-E1-12S3000P-2	3000	2	≤300mV
12V (11~16V)	≤60mA	≤700mA	KDHM-E1-12S3000N-2	3000	2	≤300mV
24V (21~28V)	≤50mA	≤600mA	KDHM-E1-24S500P-20	500	20	≤50mV
24V (21~28V)	≤50mA	≤600mA	KDHM-E1-24S500N-20	500	20	≤50mV
24V (21~28V)	≤80mA	≤1.1A	KDHM-E1-24S2000P-10	2000	10	≤200mV
24V (21~28V)	≤80mA	≤1.1A	KDHM-E1-24S2000N-10	2000	10	≤200mV
24V (21~28V)	≤70mA	≤900mA	KDHM-E1-24S3000P-5	3000	5	≤300mV
24V (21~28V)	≤70mA	≤900mA	KDHM-E1-24S3000N-5	3000	5	≤300mV

Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-F Series — Miniature High Voltage Power Supply Module

Product Features

- Ultra-small size
- $0\sim\pm 3\text{kV}$ continuously adjustable super-high output voltage
- $\leq 0.02\%$ ultra-low ripple
- High-precision voltage output sampling and current output sampling
- Output voltage adjustable via an external DC $0\sim 2.5\text{V}$ control signal
- Built-in $+2.5\text{V}$ reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit and overcurrent protection
- High-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided shielding



Technical Parameters

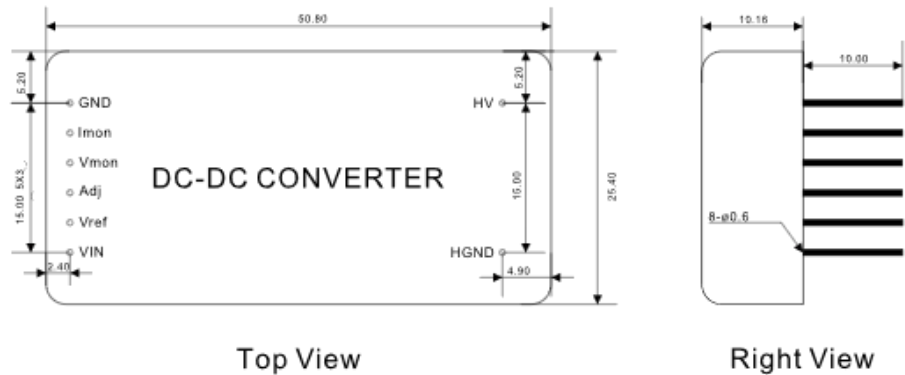
Product Grade	M: Commercial grade G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC $0\sim\pm 1\text{kV}$, $0\sim\pm 2\text{kV}$, $0\sim\pm 3\text{kV}$
Output Current	DC 0.5mA~3mA
Current Sampling Output (Optional)	DC $0\sim 5\text{V}$ corresponds to $0\sim$ rated output current (equal to DC $0\sim 2.5\text{V}$ when 5V reference)
Voltage Sampling Output (Optional)	DC $0\sim 5\text{V}$ corresponds to $0\sim$ rated high-voltage output (equal to DC $0\sim 2.5\text{V}$ when 5V reference)
Output Stability	$\leq 0.5\%$ (input voltage within nominal range, load varying 20%~80%)
Temperature Coefficient	$\leq 0.1\%/^{\circ}\text{C}$
Protection Function	Overcurrent protection, short-circuit protection
Operating Temperature	M: $0^{\circ}\text{C}\sim +50^{\circ}\text{C}$ G: $-20^{\circ}\text{C}\sim +65^{\circ}\text{C}$ J: $-40^{\circ}\text{C}\sim +85^{\circ}\text{C}$
Storage Temperature	$-55^{\circ}\text{C}\sim +125^{\circ}\text{C}$
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	High-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	50.8mm $\times$ 25.4mm $\times$ 10.16mm
Weight	34 $\pm$ 2g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	$\leq 180\text{mA}$	$\leq 550\text{mA}$	KDHM-F-5S1000P	1000	1.5	$\leq 200\text{mV}$
5V (4.5~7V)	$\leq 180\text{mA}$	$\leq 550\text{mA}$	KDHM-F-5S1000N	1000	1.5	$\leq 200\text{mV}$
5V (4.5~7V)	$\leq 180\text{mA}$	$\leq 550\text{mA}$	KDHM-F-5S3000P	3000	0.5	$\leq 600\text{mV}$
5V (4.5~7V)	$\leq 180\text{mA}$	$\leq 550\text{mA}$	KDHM-F-5S3000N	3000	0.5	$\leq 600\text{mV}$
12V (11~16V)	$\leq 90\text{mA}$	$\leq 250\text{mA}$	KDHM-F-12S1000P	1000	1.5	$\leq 200\text{mV}$
12V (11~16V)	$\leq 90\text{mA}$	$\leq 250\text{mA}$	KDHM-F-12S1000N	1000	1.5	$\leq 200\text{mV}$
12V (11~16V)	$\leq 90\text{mA}$	$\leq 250\text{mA}$	KDHM-F-12S3000P	3000	0.5	$\leq 600\text{mV}$

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
12V (11~16V)	≤90mA	≤250mA	KDHM-F-12S3000N	3000	0.5	≤600mV
24V (21~28V)	≤50mA	≤120mA	KDHM-F-24S1000P	1000	1.5	≤200mV
24V (21~28V)	≤50mA	≤120mA	KDHM-F-24S1000N	1000	1.5	≤200mV
24V (21~28V)	≤50mA	≤120mA	KDHM-F-24S3000P	3000	0.5	≤600mV
24V (21~28V)	≤50mA	≤120mA	KDHM-F-24S3000N	3000	0.5	≤600mV

Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-F Series
Unit:mm
Tolerance:±0.5

KDHM-G Series — Miniature Ultra-High Voltage Power Supply Module

Product Features

- Among the smallest modules at this voltage class for stable, adjustable high-voltage output
- 0~±8kV continuously adjustable super-high output voltage
- ≤0.01% ultra-low ripple
- High-precision voltage output sampling and current output sampling
- Output voltage adjustable via an external DC 0~2.5V control signal
- Built-in +2.5V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit and overcurrent protection
- High-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided shielding
- Pin-header and high-voltage lead-wire output



Technical Parameters

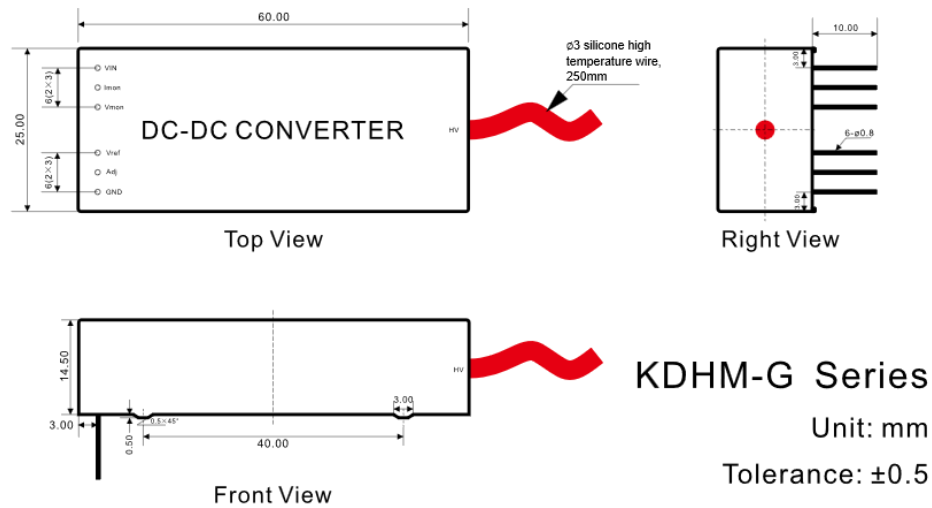
Product Grade	G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±2kV, 0~±3kV, 0~±5kV, 0~±6kV, 0~±8kV, etc.
Output Current	DC 100μA~1mA
Current Sampling Output (Optional)	DC 0~5V corresponds to 0~rated output current (equal to DC 0~2.5V when 5V reference)
Voltage Sampling Output (Optional)	DC 0~5V corresponds to 0~rated high-voltage output (equal to DC 0~2.5V when 5V reference)
Output Stability	≤0.5% (input voltage within nominal range, load varying 0%~80%)
Line Regulation	≤1%
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +2.5V
Protection Function	Overcurrent protection, short-circuit protection
Operating Temperature	G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Operating Humidity	20%~90%RH
Output Interface Type	Pin-header with mating high-voltage lead wire
Housing & Packaging	Fully enclosed metal housing, sealed resin encapsulation
Dimensions	60mm × 25mm × 15mm
Weight	55±5g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current Max.	Ripple (mVp-p)
5V (4.5~7V)	≤100mA	≤720mA	KDHM-G-5S2000P-V	200	1mA	≤200mV

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current Max.	Ripple (mVp-p)
5V (4.5~7V)	≤100mA	≤720mA	KDHM-G-5S2000N-V	200	1mA	≤200mV
5V (4.5~7V)	≤190mA	≤400mA	KDHM-G-5S8000P-V	800	100μA	≤800mV
5V (4.5~7V)	≤190mA	≤400mA	KDHM-G-5S8000N-V	800	100μA	≤800mV
12V (11~16V)	≤40mA	≤350mA	KDHM-G-12S2000P-V	200	1mA	≤200mV
12V (11~16V)	≤40mA	≤350mA	KDHM-G-12S2000N-V	200	1mA	≤200mV
12V (11~16V)	≤80mA	≤200mA	KDHM-G-12S8000P-V	800	100μA	≤800mV
12V (11~16V)	≤80mA	≤200mA	KDHM-G-12S8000N-V	800	100μA	≤800mV
24V (21~28V)	≤20mA	≤150mA	KDHM-G-24S3000P-V	300	0.6mA	≤300mV
24V (21~28V)	≤20mA	≤150mA	KDHM-G-24S3000N-V	300	0.6mA	≤300mV
24V (21~28V)	≤40mA	≤80mA	KDHM-G-24S8000P-V	800	100μA	≤800mV
24V (21~28V)	≤40mA	≤80mA	KDHM-G-24S8000N-V	800	100μA	≤800mV

Note: Output voltage column above is in hundreds of volts (e.g. 200 = 200V); for additional model numbers, please contact support@ampereforgellc.com.



KDHM-H Series — High Voltage Power Supply Module

Product Features

- Ultra-small size
- 0~±2000V continuously adjustable high output voltage
- ≤0.1% high-precision output
- ≤0.05% ultra-low ripple
- Output voltage adjustable via an external DC 0~5V control signal
- Built-in +5V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit protection and current-limiting operating mode
- High-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided shielding



Technical Parameters

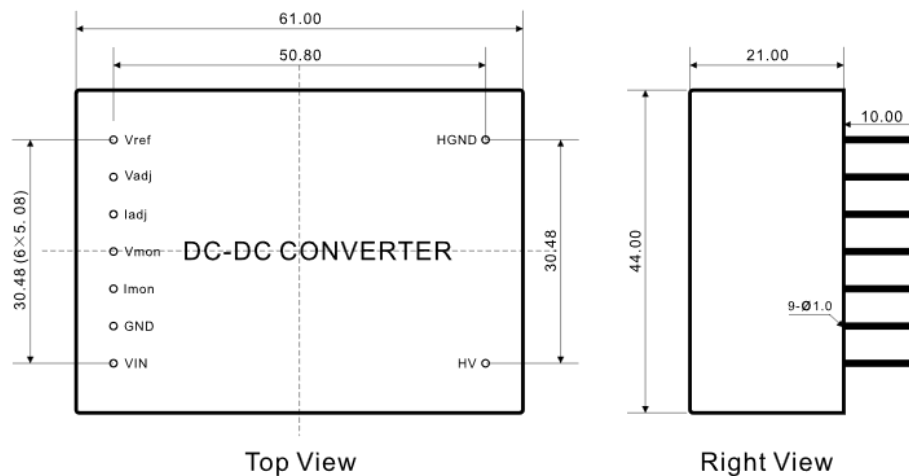
Product Grade	G: Industrial grade J: Military grade
Input Voltage (Customizable)	DC 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±100V, 0~±300V, 0~±500V, 0~±1000V, 0~±2000V, etc.
Output Current	DC 0~300mA
Output Ripple	≤0.05% (full input voltage range, full load range)
Current Sampling Output (Optional)	DC 0~5V corresponds to 0~rated high-voltage output current
Voltage Sampling Output (Optional)	DC 0~5V corresponds to 0~rated high-voltage output voltage
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤0.5% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +5V
Protection Function	Current-limiting operating mode, short-circuit protection
Operating Temperature	G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤0.1%/°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	High-thermal-conductivity copper metal housing, sealed resin encapsulation
Dimensions	61mm × 44mm × 22mm
Weight	135±5g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)	Sampling Function
12V (11~16V)	≤0.05	≤1.06	KDHM-H- 12S200P50-V	200	50	≤40mV	

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)	Sampling Function
12V (11~16V)	≤0.05	≤1.06	KDHM-H-12S200P50-VI	200	50	≤40mV	✓
12V (11~16V)	≤0.05	≤1.06	KDHM-H-12S200N50-V	200	50	≤40mV	
12V (11~16V)	≤0.05	≤1.06	KDHM-H-12S200N50-VI	200	50	≤40mV	✓
12V (11~16V)	≤0.05	≤0.92	KDHM-H-12S300P30-V	300	30	≤40mV	
12V (11~16V)	≤0.05	≤0.92	KDHM-H-12S300P30-VI	300	30	≤40mV	✓
24V (21~28V)	≤0.05	≤0.54	KDHM-H-24S100P100-V	100	100	≤30mV	
24V (21~28V)	≤0.05	≤0.54	KDHM-H-24S100P100-VI	100	100	≤30mV	✓
24V (21~28V)	≤0.05	≤0.54	KDHM-H-24S100N100-V	100	100	≤30mV	
24V (21~28V)	≤0.05	≤0.54	KDHM-H-24S100N100-VI	100	100	≤30mV	✓
24V (21~28V)	≤0.05	≤0.48	KDHM-H-24S300P30-V	300	30	≤30mV	
24V (21~28V)	≤0.05	≤0.48	KDHM-H-24S300P30-VI	300	30	≤30mV	✓

Note: Input Current is in amperes (A). For additional model numbers, please contact support@ampereforgellc.com.



KDHM-H Series

Unit: mm

Tolerance: ±0.5

KDHM-K Series — High Voltage Power Supply Module

Product Features

- Ultra-small size
- 0~±2500V continuously adjustable dual-channel super-high output voltage
- ≤0.01% ultra-low ripple, as low as 0.005%
- High-precision voltage output sampling and current output sampling
- Output voltage adjustable via an external DC 0~2.5V control signal
- Built-in +2.5V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit protection and current-limiting operating mode
- High-thermal-conductivity metal housing, sealed resin encapsulation, full metal shielding



Technical Parameters

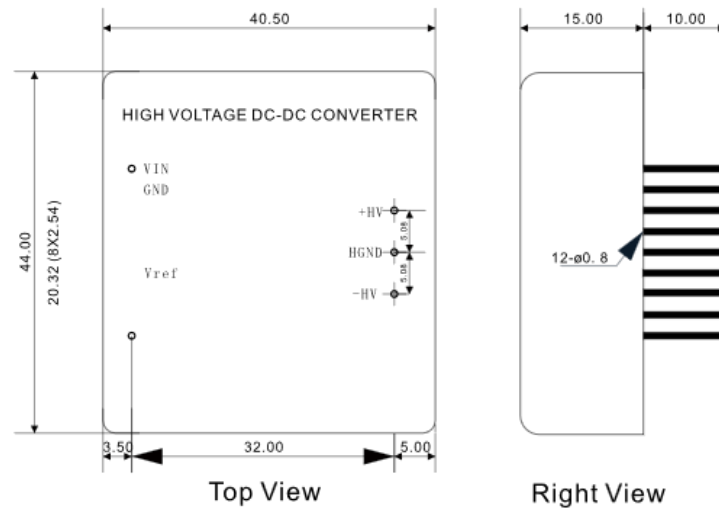
Product Grade	M: Commercial grade G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±100V, 0~±500V, 0~±1000V, 0~±1500V, 0~±2000V, 0~±2500V, etc.
Output Current	0.3mA~10mA
Output Ripple	≤0.01% (full input voltage range, full load range)
Current Sampling Output	DC 0~5V corresponds to 0~rated high-voltage output current (equal to DC 0~2.5V when 5V reference)
Voltage Sampling Output	DC 0~5V corresponds to 0~rated high-voltage output voltage (equal to DC 0~2.5V when 5V reference)
Output Stability	≤1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +2.5V
Protection Function	Current-limiting operating mode, short-circuit protection
Operating Temperature	M: 0°C~+50°C G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤0.1%/°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	Fully enclosed, high-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	40.5mm × 44mm × 15mm
Weight	62±5g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤150mA	≤850mA	KDHM-K-5D100VI-V	100	10	≤10mV

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤150mA	≤850mA	KDHM-K-5D500VI-V	500	2	≤50mV
5V (4.5~7V)	≤150mA	≤850mA	KDHM-K-5D1000VI-V	1000	1	≤100mV
5V (4.5~7V)	≤150mA	≤850mA	KDHM-K-5D2500VI-V	2500	0.3	≤250mV
12V (11~16V)	≤90mA	≤500mA	KDHM-K-12D100VI-V	100	10	≤10mV
12V (11~16V)	≤90mA	≤500mA	KDHM-K-12D500VI-V	500	2	≤50mV
12V (11~16V)	≤90mA	≤500mA	KDHM-K-12D1000VI-V	1000	1.5	≤100mV
12V (11~16V)	≤90mA	≤400mA	KDHM-K-12D2500VI-V	2500	0.5	≤250mV
24V (21~28V)	≤50mA	≤250mA	KDHM-K-24D1000VI-V	1000	1.5	≤100mV
24V (21~28V)	≤50mA	≤250mA	KDHM-K-24D1500VI-V	1500	1	≤150mV
24V (21~28V)	≤50mA	≤150mA	KDHM-K-24D2000VI-V	2000	0.6	≤200mV
24V (21~28V)	≤50mA	≤150mA	KDHM-K-24D2500VI-V	2500	0.5	≤250mV

Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-K Series

Unit: mm

Tolerance: ±0.5

KDHM-K1 Series — High Voltage Power Supply Module

Product Features

- Compact size
- 0~±3kV continuously adjustable dual-channel super-high output voltage
- High-precision voltage output sampling and current output sampling
- ≤0.01% ultra-low ripple, as low as 0.005%
- Output voltage adjustable via an external DC 0~2.5V control signal
- Built-in +2.5V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit protection, current-limiting operating mode
- Fully enclosed, high-thermal-conductivity copper metal housing, sealed resin encapsulation



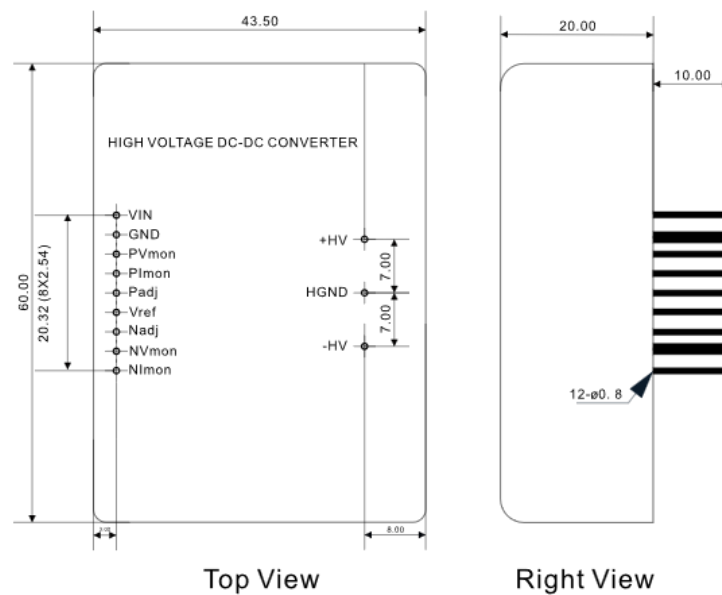
Technical Parameters

Product Grade	M: Commercial grade G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±100V, 0~±500V, 0~±1000V, 0~±2000V, 0~±2500V, 0~±3000V, etc.
Output Current	DC 0.5mA~20mA
Output Ripple	≤0.01% (full input voltage range, full load range)
Current Sampling Output	DC 0~5V corresponds to 0~rated high-voltage output current (equal to DC 0~2.5V when 5V input)
Voltage Sampling Output	DC 0~5V corresponds to 0~rated high-voltage output voltage (equal to DC 0~2.5V when 5V input)
Load Regulation	≤1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +2.5V
Protection Function	Current-limiting operating mode, short-circuit protection
Operating Temperature	M: 0°C~+50°C G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤0.1%/°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	Fully enclosed, high-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	43.5mm × 60mm × 20mm
Weight	120±5g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤150mA	≤800mA	KDHM-K1-5D100VI-V	100	20	≤10mV
5V (4.5~7V)	≤150mA	≤900mA	KDHM-K1-5D500VI-V	500	5	≤50mV
5V (4.5~7V)	≤150mA	≤1A	KDHM-K1-5D1000VI-V	1000	3	≤100mV
5V (4.5~7V)	≤150mA	≤800mA	KDHM-K1-5D3000VI-V	3000	0.5	≤300mV
12V (11~16V)	≤90mA	≤350mA	KDHM-K1-12D100VI-V	100	20	≤10mV
12V (11~16V)	≤90mA	≤450mA	KDHM-K1-12D500VI-V	500	5	≤50mV
12V (11~16V)	≤90mA	≤500mA	KDHM-K1-12D2000VI-V	2000	1.5	≤200mV
12V (11~16V)	≤90mA	≤300mA	KDHM-K1-12D3000VI-V	3000	0.5	≤300mV
24V (21~28V)	≤50mA	≤150mA	KDHM-K1-24D100VI-V	100	20	≤10mV
24V (21~28V)	≤50mA	≤200mA	KDHM-K1-24D500VI-V	500	5	≤50mV
24V (21~28V)	≤50mA	≤250mA	KDHM-K1-24D2000VI-V	2000	1.5	≤200mV
24V (21~28V)	≤50mA	≤150mA	KDHM-K1-24D3000VI-V	3000	0.5	≤300mV

Note: For additional model numbers, please contact support@ampereforgellc.com.



KDHM-K1 Series

Unit: mm

Tolerance: ± 0.5

KDHM-L Series — Micro-Power High Voltage Power Supply Module

Product Features

- Ultra-miniature size, international standard pin spacing
- 0~±500V continuously adjustable output voltage
- Ultra-low power consumption; quiescent power as low as 1.2mW
- Low ripple, high-precision output
- Output voltage adjustable via an external DC 0~1V control signal
- Built-in +1V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit protection
- Fully enclosed, high-thermal-conductivity metal housing, sealed resin encapsulation



Technical Parameters

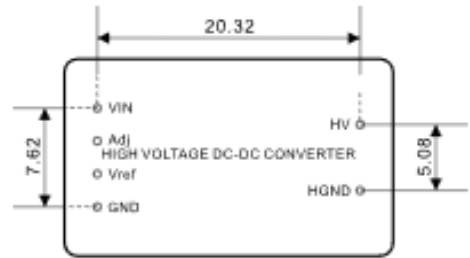
Product Grade	G: Industrial grade J: Military grade
Input Voltage	DC 5V (4.5~7V)
Output Voltage	DC 0~±100V, 0~±200V, 0~±300V, 0~±400V, 0~±500V
Output Current	DC 0.2mA~5mA
Output Ripple	≤30mVp-p~50mVp-p (full input voltage range, full load range)
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +1V
Protection Function	Overcurrent protection, short-circuit protection
Operating Temperature	G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤40PPM/°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	Fully enclosed, high-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	25.4mm × 15.2mm × 7mm
Weight	7.5±2g

Model List

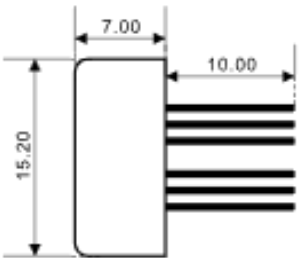
Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤0.5mA	≤20mA	KDHM-L-5S100P-V	100	0.5	≤30mV
5V (4.5~7V)	≤0.5mA	≤20mA	KDHM-L-5S100N-V	100	0.5	≤30mV
5V (4.5~7V)	≤0.8mA	≤30mA	KDHM-L-5S200P-V	200	0.5	≤40mV
5V (4.5~7V)	≤0.8mA	≤30mA	KDHM-L-5S200N-V	200	0.5	≤40mV

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤1mA	≤28mA	KDHM-L-5S300P-V	300	0.3	≤40mV
5V (4.5~7V)	≤1mA	≤28mA	KDHM-L-5S300N-V	300	0.3	≤40mV
5V (4.5~7V)	≤1.2mA	≤25mA	KDHM-L-5S400P-V	400	0.2	≤50mV
5V (4.5~7V)	≤1.2mA	≤25mA	KDHM-L-5S400N-V	400	0.2	≤50mV
5V (4.5~7V)	≤1.5mA	≤30mA	KDHM-L-5S500P-V	500	0.2	≤50mV
5V (4.5~7V)	≤1.5mA	≤30mA	KDHM-L-5S500N-V	500	0.2	≤50mV

Note: For additional model numbers, please contact support@ampereforgellc.com.



Top View



Right View



Front View

KDHM-L Series

Unit: mm

Tolerance: ±0.5

KDHM-Q Series — Super High Voltage Power Supply Module

Product Features

- 0~±15kV continuously adjustable super-high output voltage
- High-precision voltage output sampling and current output sampling
- Ultra-low ripple
- Output voltage adjustable via an external DC 0~5V control signal
- Built-in +5V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit and overcurrent protection
- High-voltage silicone lead wire



Technical Parameters

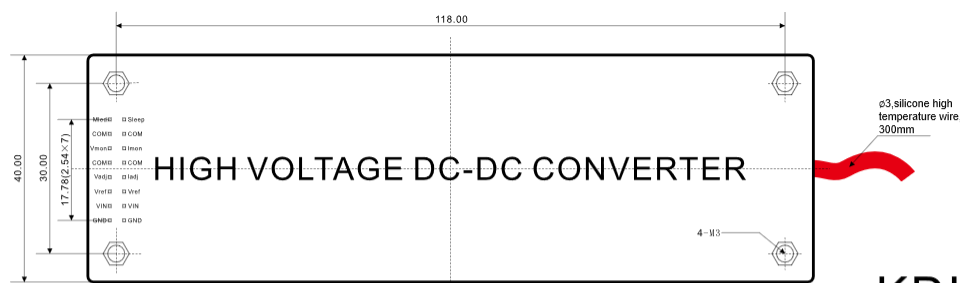
Product Grade	G: Industrial grade J: Military grade
Input Voltage	DC 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±5kV, 0~±8kV, 0~±10kV, 0~±15kV
Output Current	DC 1mA~3mA
Output Ripple	≤0.08% (full input voltage range, full load range)
Current Sampling Output	DC 0~5V corresponds to 0~rated high-voltage output current
Voltage Sampling Output	DC 0~5V corresponds to 0~rated high-voltage output voltage
Output Stability	≤0.5% (input voltage within nominal range, load varying 0%~100%)
Load Regulation	≤1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +5V
Protection Function	Overcurrent protection, short-circuit protection
Enable Control	High level shuts off output; low level or floating gives normal output
Status Indicator Output	Outputs a DC 5V signal; can drive an LED indicator
Operating Temperature	G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin plus high-voltage lead wire
Housing & Packaging	Fully enclosed, high-thermal-conductivity copper metal housing, sealed resin encapsulation
Dimensions	128mm × 40mm × 24mm
Weight	580±10g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple
12V (11~16V)	≤120mA	≤2A	KDHM-Q-12S5000P-VI	5000	3	0.008%~0.02%

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple
12V (11~16V)	≤120mA	≤2A	KDHM-Q-12S5000N-VI	5000	3	0.008%~0.02%
12V (11~16V)	≤150mA	≤2.2A	KDHM-Q-12S8000P-VI	8000	2	0.01%~0.03%
12V (11~16V)	≤150mA	≤2.2A	KDHM-Q-12S8000N-VI	8000	2	0.01%~0.03%
12V (11~16V)	≤250mA	≤2A	KDHM-Q-12S15000P-VI	15000	1	0.02%~0.08%
12V (11~16V)	≤250mA	≤2A	KDHM-Q-12S15000N-VI	15000	1	0.02%~0.08%
24V (21~28V)	≤60mA	≤1A	KDHM-Q-24S5000P-VI	5000	3	0.008%~0.02%
24V (21~28V)	≤60mA	≤1A	KDHM-Q-24S5000N-VI	5000	3	0.008%~0.02%
24V (21~28V)	≤80mA	≤1.1A	KDHM-Q-24S8000P-VI	8000	2	0.01%~0.03%
24V (21~28V)	≤80mA	≤1.1A	KDHM-Q-24S8000N-VI	8000	2	0.01%~0.03%
24V (21~28V)	≤120mA	≤1A	KDHM-Q-24S15000P-VI	15000	1	0.02%~0.08%
24V (21~28V)	≤120mA	≤1A	KDHM-Q-24S15000N-VI	15000	1	0.02%~0.08%

Note: For additional model numbers, please contact support@ampereforgellc.com.

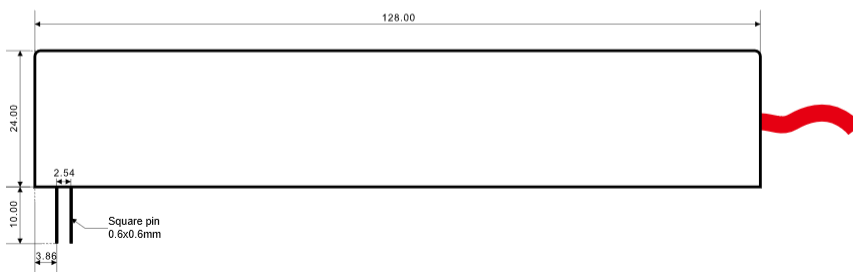


Top View

KDHM-Q Series

Unit: mm

Tolerance: ±1



Front View

KDHM-Q1 Series — Super High Voltage Power Supply Module

Product Features

- 0~±40kV continuously adjustable super-high output voltage
- High-precision voltage output sampling and current output sampling
- Ultra-low ripple
- Output voltage adjustable via an external DC 0~5V control signal
- Built-in +5V reference source; output voltage adjustable via an external potentiometer
- Built-in short-circuit and overcurrent protection
- High-voltage silicone lead wire



Technical Parameters

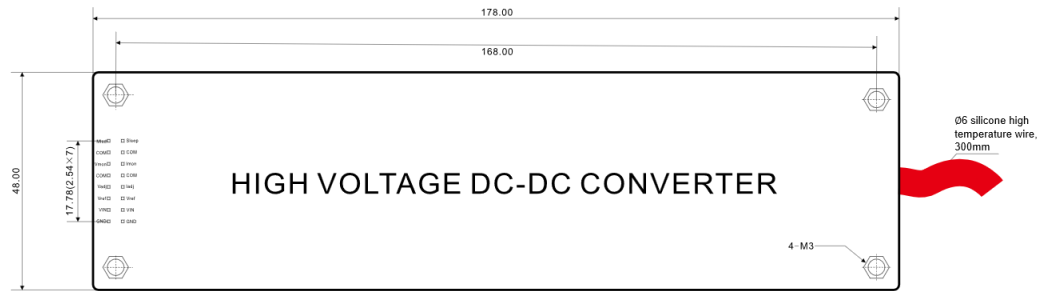
Product Grade	G: Industrial grade J: Military grade
Input Voltage	DC 12±1V, 24±2V, 28±2V
Output Voltage	DC 0~±10kV, 0~±20kV, 0~±30kV, 0~±40kV
Output Current	DC 0~4mA
Output Ripple	≤0.08% (full input voltage range, full load range)
Current Sampling Output	DC 0~5V corresponds to 0~rated high-voltage output current
Voltage Sampling Output	DC 0~5V corresponds to 0~rated high-voltage output voltage
Output Stability	≤0.5% (input voltage within nominal range, load varying 0%~100%)
Load Regulation	≤1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +5V
Protection Function	Overcurrent protection, short-circuit protection
Enable Control	High level shuts off output; low level or floating gives normal output
Status Indicator Output	Outputs a DC 5V signal; can drive an LED indicator
Operating Temperature	G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin plus high-voltage lead wire
Housing & Packaging	Fully enclosed, high-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	178mm × 48mm × 30mm
Weight	580±20g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple
24±2V	≤150mA	≤2.6A	KDHM-Q1- 24S10000P-VI	10000	4	0.008%~0.02%

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple
24±2V	≤150mA	≤2.6A	KDHM-Q1- 24S10000N-VI	10000	4	0.008%~0.02%
24±2V	≤400mA	≤2A	KDHM-Q1- 24S30000P-VI	30000	1	0.015%~0.04%
24±2V	≤400mA	≤2A	KDHM-Q1- 24S30000N-VI	30000	1	0.015%~0.04%
24±2V	≤500mA	≤0.7A	KDHM-Q1- 24S40000P-VI	40000	0.25	0.02%~0.08%
24±2V	≤500mA	≤0.7A	KDHM-Q1- 24S40000N-VI	40000	0.25	0.02%~0.08%
28±2V	≤120mA	≤2.4A	KDHM-Q1- 28S10000P-VI	10000	4	0.008%~0.02%
28±2V	≤120mA	≤2.4A	KDHM-Q1- 28S10000N-VI	10000	4	0.008%~0.02%
28±2V	≤250mA	≤2.4A	KDHM-Q1- 28S20000P-VI	20000	2	0.01%~0.03%
28±2V	≤250mA	≤2.4A	KDHM-Q1- 28S20000N-VI	20000	2	0.01%~0.03%
28±2V	≤450mA	≤0.6A	KDHM-Q1- 28S40000P-VI	40000	0.25	0.02%~0.08%
28±2V	≤450mA	≤0.6A	KDHM-Q1- 28S40000N-VI	40000	0.25	0.02%~0.08%

Note: For additional model numbers, please contact support@ampereforqellc.com.

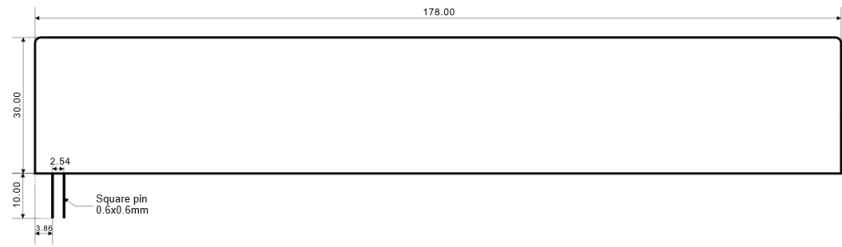


Top View

KDHM-Q1 Series

Unit: mm

Tolerance: ±1



Front View

KDHM-S Series — Multi-Channel High Voltage Power Supply Module

Product Features

- 60mm × 43.5mm × 15mm ultra-compact size
- Simultaneous three-channel high-voltage output
- Channel 1: 0~±8kV continuously adjustable high output voltage; Channels 2 & 3: 0~±1kV continuously adjustable high output voltage
- ≤0.02% ultra-low ripple
- Optional high-voltage enable control function
- Output voltage adjustable via an external DC 0~2.5V/5V control signal
- High-thermal-conductivity metal housing, 5-sided metal shielding, sealed resin encapsulation
- High-voltage silicone lead wire



Technical Parameters

Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage / Current	Vo1: DC 0~±200V/1mA, 0~±300V/1mA, 0~±1000V/0.5mA; Vo2: DC 0~±200V/1mA, 0~±300V/1mA, 0~±1000V/0.5mA; Vo3: DC 0~±6000V/0.1mA, 0~±8000V/0.1mA (the three output channels above can be freely combined; other voltage combinations available on request)
Output Ripple	≤0.02% (full input voltage range, full load range)
Output Stability	≤1% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method (Optional)	External 0~2.5V/5V control
Enable Control (Optional)	0/5V level control: low level or floating = normal high-voltage output; high level = high-voltage output disabled
Operating Temperature	-20°C~+65°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤0.1%/°C
Operating Humidity	20%~90%RH
Output Interface Type	High-voltage silicone lead-wire type
Housing & Packaging	High-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	60mm × 43.5mm × 15mm
Weight	80±5g

Custom Selection

This series is available in custom configurations. For specific model numbers and parameter customization, please contact support@ampereforegellc.com.

KDHM-T Series — High Voltage Power Supply Module

Product Features

- 150W high-power output
- 0~±7kV continuously adjustable output voltage
- ≤0.02% ultra-low ripple
- High-precision voltage output sampling and current output sampling
- Output voltage adjustable via an external DC 0~5V control signal
- Built-in +5V reference source; output voltage adjustable via an external potentiometer
- Current-limiting operating mode; built-in short-circuit and overcurrent protection
- High-thermal-conductivity metal housing, sealed resin encapsulation
- High-voltage silicone lead wire



Technical Parameters

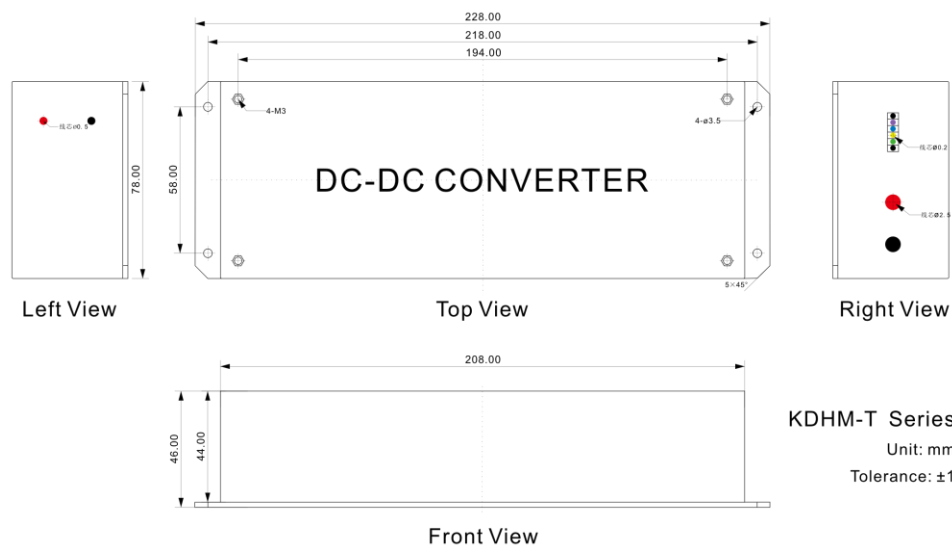
Input Voltage	DC 12±2V, 24±2V
Output Voltage	DC 0~±1kV, 0~±2kV, 0~±3kV, 0~±5kV, 0~±6kV, 0~±7kV
Output Current	DC 20mA~100mA
Output Ripple	≤0.02% (full input voltage range, full load range)
Efficiency	≥80%
Voltage Sampling Output	DC 0~5V (corresponds to 0~rated high-voltage output voltage)
Current Sampling Output	DC 0~5V (corresponds to 0~rated high-voltage output current)
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +5V
Protection Function	Overcurrent protection, short-circuit protection
Operating Temperature	-20°C~+65°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤0.1%/°C
Operating Humidity	20%~90%RH
Output Interface Type	High-voltage silicone lead-wire type
Housing & Packaging	Full metal housing, sealed resin encapsulation
Dimensions	228mm × 78mm × 46mm
Weight	1440±50g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
12±2V	≤300mA	≤6A	KDHM-T-12S1000P-50	1000	50	≤200mV

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
12±2V	≤300mA	≤6A	KDHM-T-12S1000N-50	1000	50	≤200mV
12±2V	≤500mA	≤10A	KDHM-T-12S1000P-100	1000	100	≤200mV
12±2V	≤500mA	≤10A	KDHM-T-12S1000N-100	1000	100	≤200mV
12±2V	≤500mA	≤10A	KDHM-T-12S2000P-50	2000	50	≤400mV
12±2V	≤500mA	≤10A	KDHM-T-12S2000N-50	2000	50	≤400mV
24±2V	≤150mA	≤2.5A	KDHM-T-24S1000P-50	1000	50	≤200mV
24±2V	≤150mA	≤2.5A	KDHM-T-24S1000N-50	1000	50	≤200mV
24±2V	≤200mA	≤3A	KDHM-T-24S2000P-30	2000	30	≤400mV
24±2V	≤200mA	≤3A	KDHM-T-24S2000N-30	2000	30	≤400mV
24±2V	≤400mA	≤7.8A	KDHM-T-24S3000P-50	3000	50	≤600mV
24±2V	≤400mA	≤7.8A	KDHM-T-24S3000N-50	3000	50	≤600mV

Note: For additional model numbers, please contact support@ampereforqellc.com.



KDHM-T1 Series — High Voltage Power Supply Module

Product Features

- 300W high-power output
- 0~±8kV continuously adjustable output voltage
- ≤0.02% ultra-low ripple
- High-precision voltage output sampling and current output sampling
- Output voltage adjustable via an external DC 0~5V control signal
- Built-in +5V reference source; output voltage adjustable via an external potentiometer
- Current-limiting operating mode; built-in short-circuit and overcurrent protection
- High-thermal-conductivity metal housing, sealed resin encapsulation
- High-voltage silicone lead wire

Technical Parameters

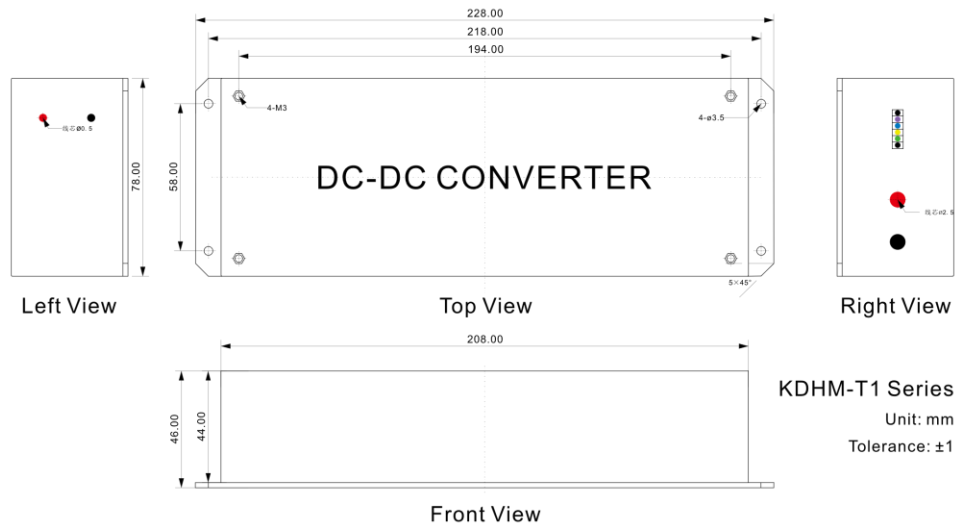
Input Voltage	DC 12±2V, 24±2V
Output Voltage	DC 0~±1kV, 0~±2kV, 0~±3kV, 0~±5kV, 0~±6kV, 0~±7kV, etc.
Output Current	DC 20mA~300mA
Output Ripple	≤0.02% (full input voltage range, full load range)
Efficiency	≥80%
Voltage Sampling Output	DC 0~5V (corresponds to 0~rated high-voltage output voltage)
Current Sampling Output	DC 0~5V (corresponds to 0~rated high-voltage output current)
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +5V
Protection Function	Overcurrent protection, short-circuit protection
Operating Temperature	-20°C~+65°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤0.1%/°C
Operating Humidity	20%~90%RH
Output Interface Type	High-voltage silicone lead-wire type
Housing & Packaging	Full metal housing, sealed resin encapsulation
Dimensions	228mm × 78mm × 46mm
Weight	1440±50g

Model List

Input Voltage (V)	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Output Power	Ripple (mVp-p)
12±2V	KDHM-T1- 12S1000P100-VI	0~±1000V	100mA	100W	100mV

Input Voltage (V)	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Output Power	Ripple (mVp-p)
12±2V	KDHM-T1-12S1000N100-VI	0~1000V	100mA	100W	100mV
12±2V	KDHM-T1-12S1000P200-VI	0~+1000V	200mA	200W	100mV
12±2V	KDHM-T1-12S1000N200-VI	0~1000V	200mA	200W	100mV
12±2V	KDHM-T1-12S1000P300-VI	0~+1000V	300mA	300W	100mV
12±2V	KDHM-T1-12S1000N300-VI	0~1000V	300mA	300W	100mV
24±2V	KDHM-T1-24S1000P100-VI	0~+1000V	100mA	100W	100mV
24±2V	KDHM-T1-24S1000N100-VI	0~1000V	100mA	100W	100mV
24±2V	KDHM-T1-24S1000P200-VI	0~+1000V	200mA	200W	100mV
24±2V	KDHM-T1-24S1000N200-VI	0~1000V	200mA	200W	100mV
24±2V	KDHM-T1-24S1000P300-VI	0~+1000V	300mA	300W	100mV
24±2V	KDHM-T1-24S1000N300-VI	0~1000V	300mA	300W	100mV

Note: For additional model numbers, please contact support@ampereforqellc.com.



KHPC-E Series — CNC High Voltage Power Supply Module

Product Features

- 100W high-power output
- 0~±5kV continuously adjustable high output voltage
- High-precision voltage output sampling and current output sampling
- Built-in RS485 standard communication interface; supports networked batch deployment for remote monitoring and control of high-voltage modules
- Output voltage adjustable via an external DC 0~5V control signal
- Built-in +5V reference source; output voltage adjustable via an external potentiometer
- Current-limiting operating mode; built-in short-circuit and overcurrent protection
- High-thermal-conductivity metal housing, sealed resin encapsulation



Technical Parameters

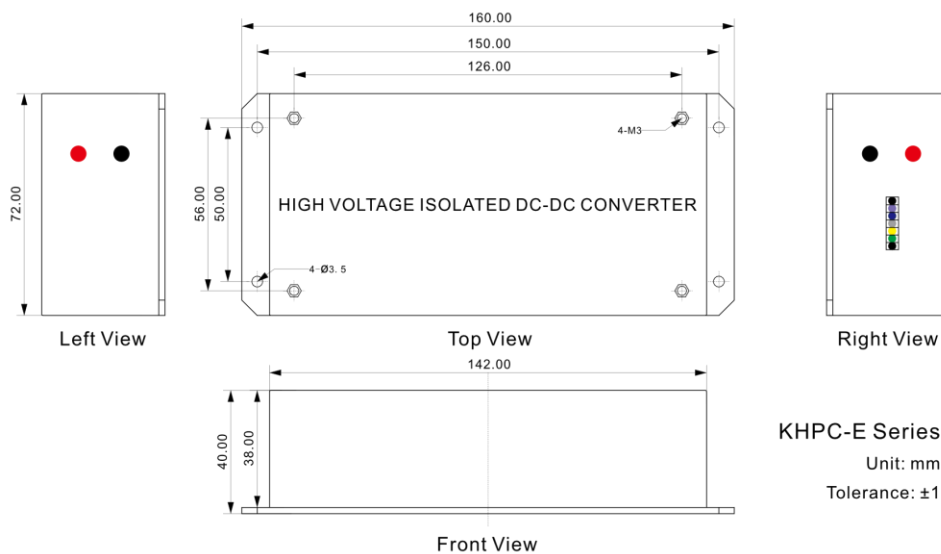
Input Voltage	DC 12±2V, 24±2V
Output Voltage	DC 0~±1kV, 0~±2kV, 0~±3kV, 0~±4kV, 0~±5kV
Maximum Output Power	100W
Output Ripple	≤0.02% (full input voltage range, full load range)
Efficiency	≥80%
Voltage Sampling Output	DC 0~5V (corresponds to 0~rated high-voltage output voltage)
Current Sampling Output	DC 0~5V (corresponds to 0~rated high-voltage output current)
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control, remote digital control
Reference Voltage Output	DC +5V
Protection Function	Overcurrent protection, short-circuit protection
Operating Temperature	-20°C~+65°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤0.1%/°C
Operating Humidity	20%~90%RH
Communication Interface (Optional)	Standard RS485 (Modbus RTU protocol)
Housing & Packaging	Full metal housing, sealed resin encapsulation
Dimensions	160mm × 72mm × 40mm
Weight	780±10g

Model List

Input Voltage (V)	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Output Power	Ripple (mVp-p)	Digital Control Function
12±2V	KHPC-E- 12S1000P50-VI	0~+1000V	50mA	50W	100mV	

Input Voltage (V)	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Output Power	Ripple (mVp-p)	Digital Control Function
12±2V	KHPC-E-12S1000P50-C	0~+1000V	50mA	50W	100mV	✓
12±2V	KHPC-E-12S1000N50-VI	0~-1000V	50mA	50W	100mV	
12±2V	KHPC-E-12S1000N50-C	0~-1000V	50mA	50W	100mV	✓
12±2V	KHPC-E-12S1000P100-VI	0~+1000V	100mA	100W	100mV	
12±2V	KHPC-E-12S1000P100-C	0~+1000V	100mA	100W	100mV	✓
24±2V	KHPC-E-24S1000P50-VI	0~+1000V	50mA	50W	100mV	
24±2V	KHPC-E-24S1000P50-C	0~+1000V	50mA	50W	100mV	✓
24±2V	KHPC-E-24S1000N50-VI	0~-1000V	50mA	50W	100mV	
24±2V	KHPC-E-24S1000N50-C	0~-1000V	50mA	50W	100mV	✓
24±2V	KHPC-E-24S1000P100-VI	0~+1000V	100mA	100W	100mV	
24±2V	KHPC-E-24S1000P100-C	0~+1000V	100mA	100W	100mV	✓

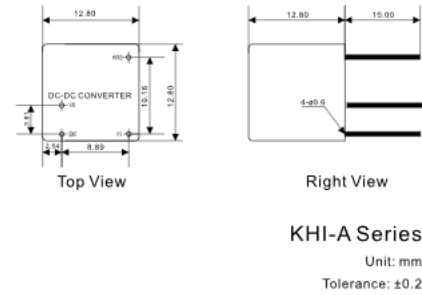
Note: For additional model numbers, please contact support@ampereforqellc.com.



KHI-A Series — Isolated Ultra-High Voltage Power Supply Module

Product Features

- 12.8mm × 12.8mm × 12.8mm ultra-compact size
- Low ripple, high-precision output
- Built-in short-circuit protection
- Sealed resin encapsulation, full metal shielding
- Shock-resistant, moisture-proof, radiation-shielded



Technical Parameters

Input Voltage	DC 5V (4.5~7V), DC 12V (11~16V)
Output Voltage	DC ±100V, ±200V, ±300V, ±400V, ±500V
Output Current	DC 0~5mA
Output Ripple	≤1% (full input voltage range, full load range)
Protection Function	Short-circuit protection
Isolation Voltage	DC 500V
Operating Temperature	-20°C~+65°C
Storage Temperature	-55°C~+105°C
Temperature Coefficient	≤40PPM/°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	Fully enclosed, high-thermal-conductivity metal housing, sealed resin encapsulation
Outline Dimensions	12.8mm × 12.8mm × 12.8mm
Weight	5±1g

Model List

Input Voltage (V) Nominal (Range)	Input Current No Load	Input Current Full Load	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Ripple (mVp-p)
5V (4.5~7V)	≤100mA	≤250mA	KHI-A-5S100P-V	100	5	≤10mV
5V (4.5~7V)	≤100mA	≤250mA	KHI-A-5S100N-V	100	5	≤10mV
5V (4.5~7V)	≤110mA	≤220mA	KHI-A-5S200P-V	200	5	≤30mV
5V (4.5~7V)	≤110mA	≤220mA	KHI-A-5S200N-V	200	5	≤30mV
5V (4.5~7V)	≤100mA	≤250mA	KHI-A-5S300P-V	300	1.67	≤2.5mV
5V (4.5~7V)	≤110mA	≤250mA	KHI-A-5S300N-V	300	1.67	≤2.5mV
12V (11~16V)	≤100mA	≤250mA	KHI-A-12S100P-V	100	5	≤10mV
12V (11~16V)	≤100mA	≤250mA	KHI-A-12S100N-V	100	5	≤10mV
12V (11~16V)	≤100mA	≤250mA	KHI-A-12S200P-V	200	2.5	≤2.5mV
12V (11~16V)	≤100mA	≤250mA	KHI-A-12S200N-V	200	2.5	≤2.5mV
12V (11~16V)	≤100mA	≤250mA	KHI-A-12S300P-V	300	1.67	≤2.5mV

Note: For additional model numbers, please contact support@ampereforgellc.com.

KHI-D3 Series — High-Precision Isolated High Voltage Power Supply Module

Product Features

- 32mm × 20mm × 10mm ultra-compact size
- Ripple as low as 10mVp-p, ultra-low
- Standard DIP-24 IC pin spacing
- Output voltage 0~±300V continuously adjustable
- 500V high isolation voltage
- Built-in overcurrent and short-circuit protection
- High-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided metal shielding
- Output voltage adjustable via an external 0~5V control signal

Technical Parameters

Input Voltage	DC 5V (4.5~7V), 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±100V, 0~±200V, 0~±300V
Output Current	DC 1mA~5mA
Output Ripple	≤10mVp-p~50mVp-p (full input voltage range, full load range)
Output Stability	≤0.5% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤1% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control
Protection Function	Overcurrent protection, short-circuit protection
Isolation Voltage	500V
Isolation Resistance	500MΩ
Operating Temperature	G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Operating Humidity	20%~90%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	Fully enclosed, high-thermal-conductivity metal housing, sealed resin encapsulation
Outline Dimensions	32mm × 20mm × 10mm
Weight	16±2g

Model List

Input Voltage (V)	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Output Power	Ripple (mVp-p)
5V (4.5~7V)	KHI-D3-5S100P2-V	100	2mA	0.2W	≤10mV
5V (4.5~7V)	KHI-D3-5S100N2-V	100	2mA	0.2W	≤10mV
5V (4.5~7V)	KHI-D3-5S200P1-V	200	1mA	0.2W	≤10mV
5V (4.5~7V)	KHI-D3-5S200N1-V	200	1mA	0.2W	≤10mV
12V (11~16V)	KHI-D3-12S100P2-V	100	2mA	0.2W	≤10mV
12V (11~16V)	KHI-D3-12S100N2-V	100	2mA	0.2W	≤10mV

Input Voltage (V)	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Output Power	Ripple (mVp-p)
12V (11~16V)	KHI-D3-12S200P1-V	200	1mA	0.2W	≤10mV
12V (11~16V)	KHI-D3-12S200N1-V	200	1mA	0.2W	≤10mV
24V (21~28V)	KHI-D3-24S100P2-V	100	2mA	0.2W	≤10mV
24V (21~28V)	KHI-D3-24S100N2-V	100	2mA	0.2W	≤10mV
24V (21~28V)	KHI-D3-24S200P1-V	200	1mA	0.2W	≤10mV
24V (21~28V)	KHI-D3-24S200N1-V	200	1mA	0.2W	≤10mV

Note: For additional model numbers, please contact support@ampereforge.com.

KHI-E Series — Isolated CNC High Voltage Power Supply Module

Product Features

- $\pm 3000\text{V}$ continuously adjustable ultra-high output voltage
- DC 3000V high isolation voltage
- Built-in 5V reference voltage; output voltage adjustable via an external potentiometer
- Output voltage adjustable via an external 0~5V control signal
- Built-in RS485 standard communication interface; connects to a host computer or microcontroller for digital monitoring and control
- Supports networked batch deployment for remote monitoring and control of high-voltage modules
- High-voltage silicone lead-wire output

Technical Parameters

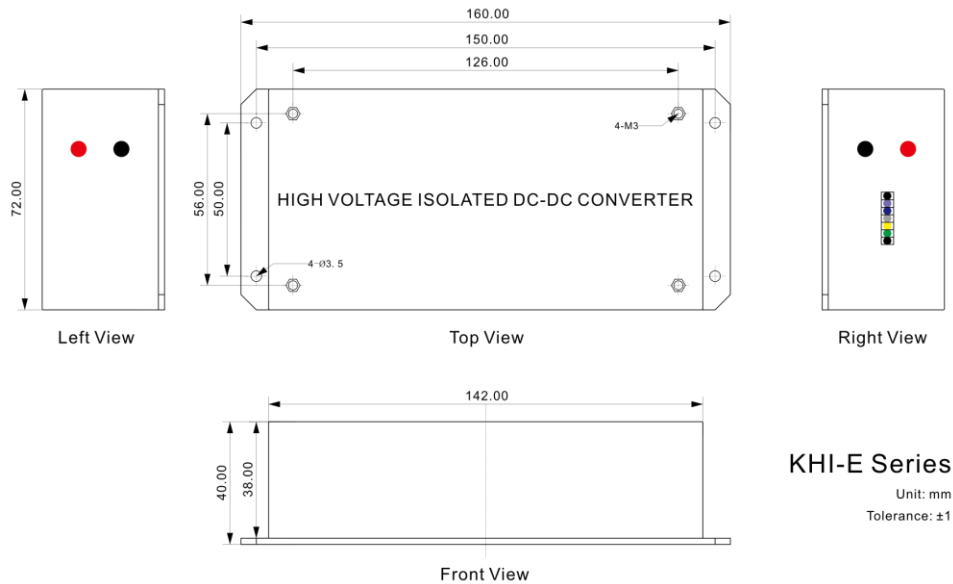
Input Voltage	DC 12 $\pm$ 2V, 24 $\pm$ 2V
Output Voltage	DC 0~ $\pm 1000\text{V}$, 0~ $\pm 2000\text{V}$, 0~ $\pm 3000\text{V}$
Maximum Output Power	100W
Output Ripple	$\leq 0.02\%$ (full input voltage range, full load range)
Efficiency	$\geq 80\%$
Protection Function	Short-circuit protection, overcurrent protection
Voltage Sampling Output	DC 0~5V corresponds to 0~rated high-voltage output voltage
Current Sampling Output	DC 0~5V corresponds to 0~rated high-voltage output current
Output Stability	$\leq 0.5\%$ (input voltage within nominal range, load varying 20%~80%)
Load Regulation	$\leq 1\%$ (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control, remote digital control
Reference Voltage Output	DC +5V
Operating Temperature	-20°C~+65°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	$\leq 0.1\%/^{\circ}\text{C}$
Operating Humidity	20%~90%RH
Output Interface Type	High-voltage silicone lead-wire type
Housing & Packaging	Full copper metal housing, sealed resin encapsulation
Dimensions	160mm $\times$ 72mm $\times$ 40mm
Weight	780 $\pm$ 10g

Model List

Input Voltage (V)	Output Voltage (V) Max.	Output Current (mA) Max.	Product Model (P=positive, N=negative)	Output Power	Ripple (mVp-p)	Digital Control Function
12 $\pm$ 2V	1000	50mA	KHI-E-12S1000P50-VI	50W	$\leq 100\text{mV}$	
12 $\pm$ 2V	1000	50mA	KHI-E-12S1000P50-C	50W	$\leq 100\text{mV}$	✓

Input Voltage (V)	Output Voltage (V) Max.	Output Current (mA) Max.	Product Model (P=positive, N=negative)	Output Power	Ripple (mVp-p)	Digital Control Function
12±2V	1000	50mA	KHI-E-12S1000N50-VI	50W	≤100mV	
12±2V	1000	50mA	KHI-E-12S1000N50-C	50W	≤100mV	✓
12±2V	1000	100mA	KHI-E-12S1000P100-VI	100W	≤100mV	
12±2V	1000	100mA	KHI-E-12S1000P100-C	100W	≤100mV	✓
24±2V	1000	50mA	KHI-E-24S1000P50-VI	50W	≤100mV	
24±2V	1000	50mA	KHI-E-24S1000P50-C	50W	≤100mV	✓
24±2V	1000	50mA	KHI-E-24S1000N50-VI	50W	≤100mV	
24±2V	1000	50mA	KHI-E-24S1000N50-C	50W	≤100mV	✓
24±2V	1000	100mA	KHI-E-24S1000P100-VI	100W	≤100mV	
24±2V	1000	100mA	KHI-E-24S1000P100-C	100W	≤100mV	✓

Note: For additional model numbers, please contact support@ampereforgellc.com.



KHI-H Series — Isolated High Voltage Power Supply Module

Product Features

- 61mm × 44mm × 21mm ultra-compact size
- ≤0.05% ultra-low ripple
- ≤0.1% high-precision output
- 0~±2000V continuously adjustable high output voltage
- DC 3000V high isolation voltage
- Built-in +5V reference source; output voltage adjustable via an external potentiometer
- Output voltage adjustable via an external 0~5V control signal
- Current-limiting operating mode; high-thermal-conductivity metal housing, sealed resin encapsulation, 5-sided metal shielding
- Gold-plated pin-type output

Technical Parameters

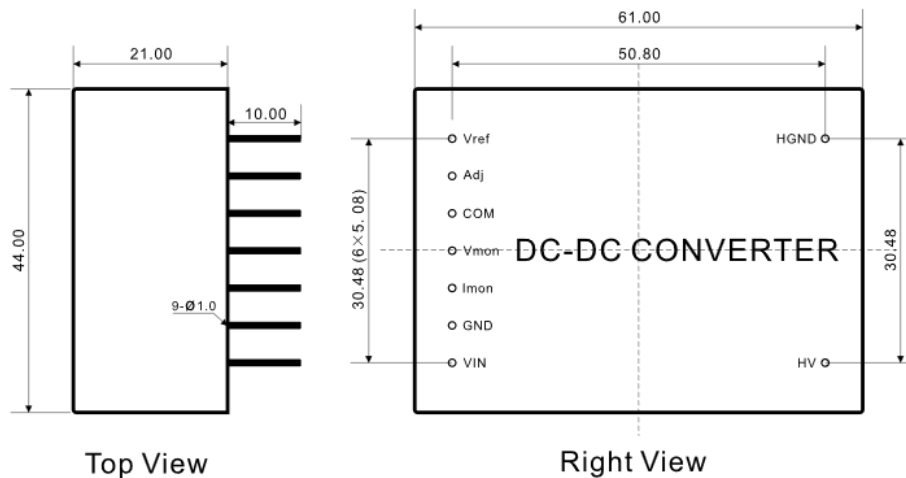
Input Voltage	DC 12V (11~16V), 24V (21~28V)
Output Voltage	DC 0~±100V, 0~±200V, 0~±300V, 0~±500V, 0~±1000V, 0~±2000V
Output Current	DC 0~300mA
Conversion Efficiency	0.75
Output Ripple	≤0.05% (full input voltage range, full load range)
Output Stability	≤0.1% (input voltage within nominal range, load varying 20%~80%)
Load Regulation	≤0.5% (input voltage within nominal range, load varying 0%~100%)
Output Voltage Adjustment Method	Voltage-control, potentiometer-control
Reference Voltage Output	DC +5V
Operating Temperature	G: -20°C~+65°C J: -40°C~+85°C
Storage Temperature	-55°C~+125°C
Temperature Coefficient	≤0.1%/°C
Operating Humidity	≤95%RH
Output Interface Type	Gold-plated pin type
Housing & Packaging	High-thermal-conductivity metal housing, sealed resin encapsulation
Dimensions	161mm × 44mm × 21mm
Weight	140±5g

Model List

Input Voltage (V)	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Output Power	Ripple (mVp-p)	Sampling Function
12V (11~16V)	KHI-H-12S100P50-V	100V	50mA	5W	≤30mV	
12V (11~16V)	KHI-H-12S100P50-VI	100V	50mA	5W	≤30mV	✓
12V (11~16V)	KHI-H-12S100N50-V	100V	50mA	5W	≤30mV	

Input Voltage (V)	Product Model (P=positive, N=negative)	Output Voltage (V) Max.	Output Current (mA) Max.	Output Power	Ripple (mVp-p)	Sampling Function
12V (11~16V)	KHI-H-12S100N50-VI	100V	100mA	5W	≤30mV	✓
12V (11~16V)	KHI-H-12S100P100-V	100V	100mA	10W	≤50mV	
12V (11~16V)	KHI-H-12S100N100-VI	100V	100mA	10W	≤50mV	✓
24V (21~28V)	KHI-H-24S100P50-V	100V	50mA	5W	≤20mV	
24V (21~28V)	KHI-H-24S100P50-VI	100V	50mA	5W	≤20mV	✓
24V (21~28V)	KHI-H-24S100N50-V	100V	50mA	5W	≤20mV	
24V (21~28V)	KHI-H-24S100N50-VI	100V	50mA	5W	≤20mV	✓
24V (21~28V)	KHI-H-24S100P100-V	100V	100mA	10W	≤30mV	
24V (21~28V)	KHI-H-24S100P100-VI	100V	100mA	10W	≤30mV	✓

Note: For additional model numbers, please contact support@ampereforgellc.com.



KHI-H Series

Unit: mm

Tolerance: ±0.5