



AMS series

15 to 72 watts



Features:

- **Wider Input Voltage:**
GD option; changes input to 90-256 Vac
- **Multiple mechanical configurations**
- **Encapsulated**

Ideally Suited For:

- **Computing**
- **Instrumentation**
- **Transportation**

Input Characteristics

Input Voltage:	187-264 VAC, 47-440Hz standard. 90-256 VAC, 47-440Hz optional (GD optional).
Input Filtering	Pi Filter
Efficiency	75% to 92% typical
Input Transient Protection	Protected via MOV
Overload Protection	via external fuse
* GD option. to order place "GD" after the model number and before the case code - i.e. AMS 05 5000 <u>GD</u> AA32	

Output Characteristics

Output Voltage Accuracy:	0 to 2%
Line and Load Regulation:	Less than 1%
Ripple and Noise:	<20 mV plus 1% pk-pk of Vout (0-30 MHz)
Transient Response/Recovery Time	± 3% within 1mSec
Temperature Coefficient:	<0.02%/degree C
Current Limiting:	>120% maximum output
Short Circuit Protection:	Continuous

Environmental Characteristics

Operating Temperature Range:	-20°C to +70°C
Storage Temperature Range:	-40°C to +85°C
Maximum Baseplate Temperature:	+85°C
Derating:	Derate 2% per °C beyond 45°C; (beyond 55°C if baseplate configured)
Humidity:	95% RH
Reliability (MTBF per Mil-HDBK-217):	>350,000 hours, +25°C, Ground benign

General Characteristics

Switching Frequency:	25 kHz
Isolation (Input to Output):	3750 VAC
Insulation Resistance:	>100 megohm at 500 VDC
Agency Approval:	CE mark

EMC Characteristics

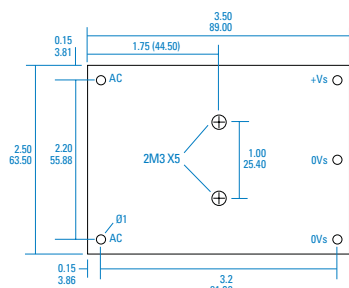
Conducted emissions	EN55022
Radiated emissions	EN55022
ESD	EN61000-4-2
Radiated immunity	EN61000-4-3
Fast Transients	EN61000-4-4
Surge	EN61000-4-5



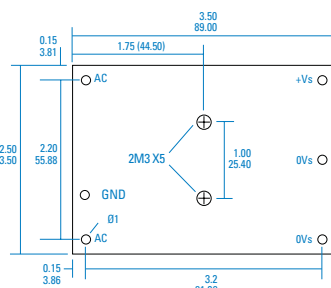


Outline Drawing

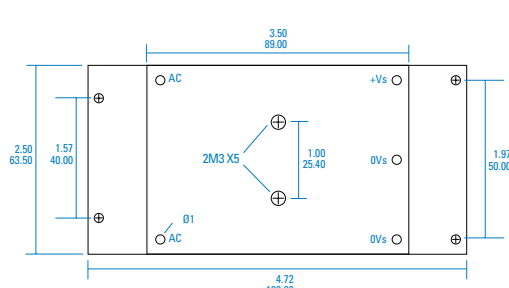
AA32



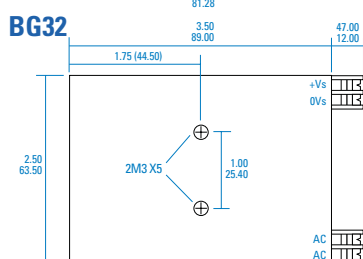
AAT32



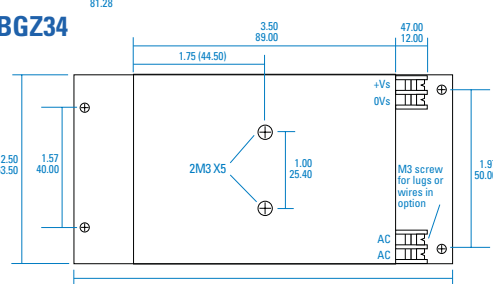
AAZ32



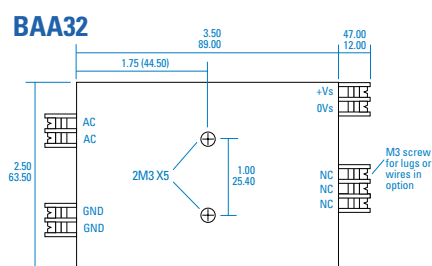
BG32



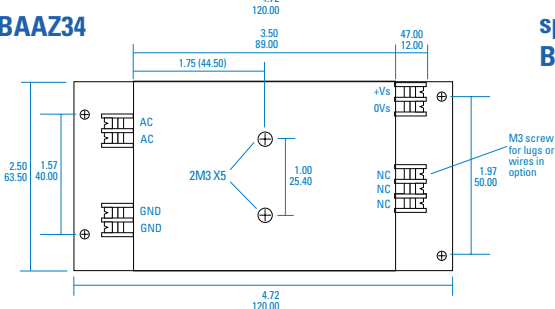
BGZ34



BAA32



BAAZ34



Consult factory for mounting plate specs on BGZ34 & BAAZ34.

Available Models

Case Code

Model	Output Voltage (Vdc)	Output Current (A)	Pins	Pins with ground	Terminal Block	Terminal Block with ground	Pin with mounting plate	Terminal with mounting plate
AMS053000	5	3	AA32	AAT32	BG32	BAA32		
AMS055000	5	5	AA32	AAT32	BG32	BAA32		
AMS122000	12	2	AA32	AAT32	BG32	BAA32		
AMS123000	12	3	AA32	AAT32	BG32	BAA32		
AMS126000*	12	6					AAZ34	BGZ34
AMS241000	24	1	AA32	AAT32	BG32	BAA32		
AMS242000	24	2	AA32	AAT32	BG32	BAA32		

Note: Case size AA32, AAT32, BG32 and BAA32 are 32mm height. Case size AAZ34 and BGZ34 are 34mm height.

*Only available in case AAZ34 and BGZ34.

To order specify model number and preferred case configuration i.e. AM 05 3000 AA32.

All specifications are typical at 25 degrees C with nominal input voltage and full output unless otherwise noted. Specifications are subject to change without notice. All dimensions are typical.