M.Brick Gate Series Power Supplies

Solid, Natural/Forced cooled, Real time and fastest load/line regulated Power Supplies

Eram Power Electronics offers reliable and efficient power brick DC voltage modules that can convert single phase AC wide varying window voltage or a DC input voltage to a constant and stiff positive output voltages for sophisticated applications. The output DC voltage is galvanically isolated from its AC/DC input capable of operating for a wide temperature range, features short circuit protections, over votage/under voltage protections which enable the user for reliable and hassle free operation

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M.BGS 'Multi Brick Gate Series' power supply module offers low output ripple DC rails with increased load transient performances enabled for refined and critical applications.

Eram's M.Brick Gate DC power supplies are handy, highly efficient, single multilayer PCB built-in rugged power supplies caters all the low and medium DC voltage demands from 3.3 volt to 48-Volt DC. An FRU (Field Replacement Unit) based design drops internal wire harness and brings highest reliability at a wide operating temperature range.

Eram power electronics not only supplies standard AC-DC brick converters but also offers Plug-in Ready to Use AC/DC-DC tailor-fit converter modules on request.

PRODUCT SPECIFICATION	VALUE / UNITS				REMARKS
INPUT PARAMETERS					
Input configuration-1	Single phase AC, Three wire				Phase, Neutral+ Protective Earth
Input configuration-2	DC Input				DC Input
Input Operating voltage window	100- 300 V AC/ 100-350 V DC				Universal Input
Input Operating frequency window	50/60 Hz (+/-5Hz)				400 Hz Input- Optional
OUTPUT PARAMETERS					
Output voltage Fixed (+V DC or -V DC)	± 3.3	± 5	± 12	± 15	Fixed output voltage /Customised options
Output current (A)	3		2		Fixed output voltage /Customised options
Efficiency (typical)at rated load	>90%				@Nominal input voltage, @Rated full load
Topology	Active High frequency PWM				
FEATURES					
Output DC voltage ripple	<0.5%				With respect to the rated output voltage
Load/Line regulation	<± 1%				With respect to the rated output voltage
Isolation between AC input and DC output	Galvanic				2.5 kV
PROTECTIONS					
Input over voltage protection	YES				> 300 V AC Input
Input under voltage protection	YES				<100 V AC Input
Output current limit	YES				
Output On/Off	YES				Optional switch
Output short circuit	YES				Built in active protection
ENVIRONMENTAL CONDITIONS					
Operating temperature	0°C to +55°C				100% load capacity for the entire range
Storage temperature	0°C to +55°C				
Relative humidity	0-95% Non-Condensing				
Cooling	Natural/Forced				Forced cooled chassis for > 3A
MECHANICAL					
Product dimension L*W*H (mm)	130*75*30				All dimensions are in mm
Weight (g)	~ 150				



Applications

- Medical
- Industries
- Automobiles
- Laboratories
- Telecoms
- Transportations

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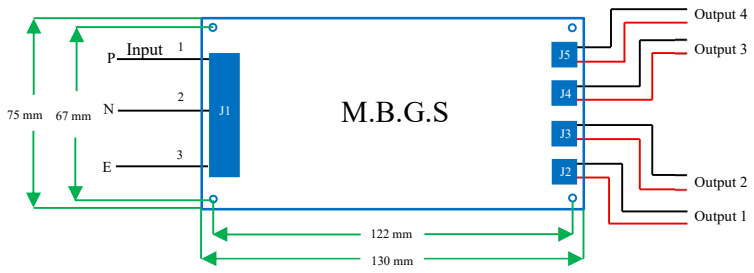
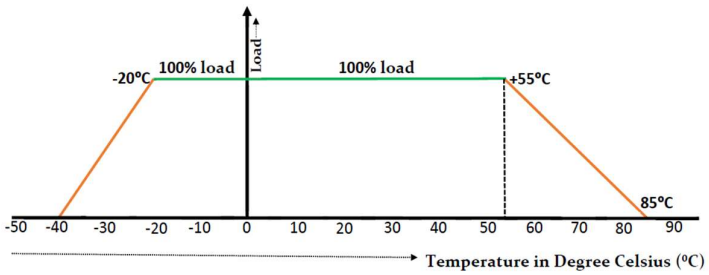
ORDERING INFORMATION								
SI.NO	Ordering C-ode	Voltage & Current				Recommended Cable for Input & Output	Mounting Hardware (mm)	Input/Output Terminal Connector
1	M.BGS-075-04	3.3 V DC (3A)	5 V DC (3 A)	12 V DC (2 A)	12 V DC (2 A)	14 AWG	3	Screw Type
2	M.BGS-115-04	3.3 V DC (3A)	5 V DC (3 A)	15 V DC (2 A)	-15 V DC (2 A)	14 AWG	3	Screw Type
3	M.BGS-070-04	3.3 V DC (3A)	-3.3 V DC (3 A)	12 V DC (2 A)	-12 V DC (2 A)	14 AWG	3	Screw Type
4	M.BGS-080-04	5 V DC (3A)	-5 V DC (3 A)	12 V DC (2 A)	-12 V DC (2 A)	14 AWG	3	Screw Type
5	M.BGS-110-04	12 V DC (2A)	-12 V DC (2 A)	15 V DC (2 A)	15 V DC (2 A)	14 AWG	3	Screw Type

Configurations:

Output voltage configuration



Capability matrix: Ambient Temperature Vs Power output



*Output current rating >3A is available with chassis and with a forced cooling option.

*Active output short circuit protection

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