

ERAM POWER ELECTRONICS

Brick Gate Series Power Supplies-110 V DC/10A

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 and negative DC 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/overload and input out of its operating voltage window protections enable the user for reliable and hassle free operation.

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Brick Gate Series Power Supplies

BGS '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 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)	110	Fixed output voltage /Customised options
Output current (A)	10	Fixed output voltage /Customised options
Efficiency (typical)at rated load	>95%	@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	
Output short circuit	YES	Built in active protection
ENVIRONMENTAL CONDITIONS		
Operating temperature	-20°C to +55°C	100% load capacity for the entire range
Storage temperature	-20°C to +55°C	
Relative humidity	0-95% Non-Condensing	
Cooling	Forced	
MECHANICAL		
Product dimension	134x84x403 (HWD)	All dimensions are in mm
Weight (g)	1350	Closed frame

Applications:



Medical



Industrial



Automobile



Laboratory



Telecom



Transportation



ORDERING CODE: BGSPSP110V10A



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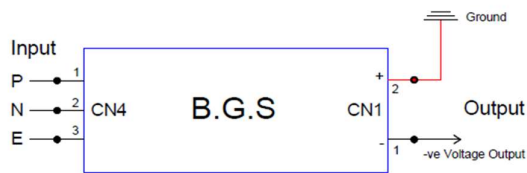
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ORDERING INFORMATION							
SINO	Ordering code	Voltage (V DC)	Output Current (A DC)	Recommended Cable Input AWG #	Recommended Cable Output AWG #	Mounting Hardware (mm)	Input/Output Terminal connector
1	BGSPSP---V--A	+3.3	10/20/30/40/50	#17	#12/8/7/5/#4	3	Screw type
2	BGSPSN---V--A	-3.3	10/20/30/40/50	#17	#12/8/7/5/#4	3	Screw type
3	BGSPSP---V--A	+5.00	10/20/30/40	#17	#12/8/7/#5	3	Screw type
4	BGSPSN---V--A	-5.00	10/20/30/40	#17	#12/8/7/#5	3	Screw type
5	BGSPSP---V--A	+12	3/5/10/15/20	#17	#17/14/12/10/#8	3	Screw type
6	BGSPSN---V--A	-12	3/5/10/15/20	#17	#17/14/12/10/#8	3	Screw type
7	BGSPSP---V--A	+15	3/5/10/15	#17	#17/14/12/#10	3	Screw type
8	BGSPSN---V--A	-15	3/5/10/15	#17	#17/14/12/#10	3	Screw type
9	BGSPSP---V--A	+18	3/6/9/12	#17	#17/14/12/#11	3	Screw type
10	BGSPSN---V--A	-18	3/6/9/12	#17	#17/14/12/#11	3	Screw type
11	BGSPSP---V--A	+24	3/5/7.5/10	#17	#17/14/13/#12	3	Screw type
12	BGSPSN---V--A	-24	3/5/7.5/10	#17	#17/14/13/#12	3	Screw type
13	BGSPSP---V--A	+36	3/5/7.5	#17	#17/14/13	3	Screw type
14	BGSPSN---V--A	-36	3/5/7.5	#17	#17/14/13	3	Screw type
15	BGSPSP---V--A	+48	1/2/3/5	#17	#20/18/17/#14	3	Screw type
16	BGSPSN---V--A	-48	1/2/3/5	#17	#20/18/17/#14	3	Screw type

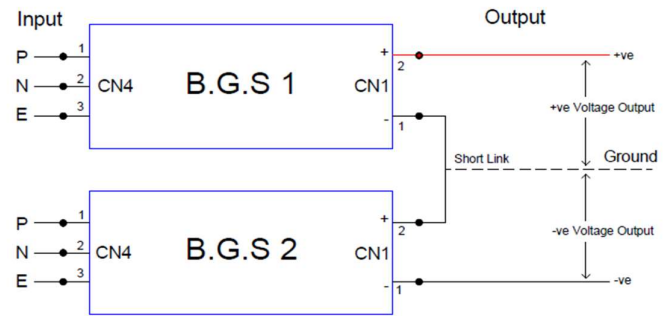
For example to order +15Volt, 10A the ordering code will be 'BGSPSP15V10A'

Configurations:

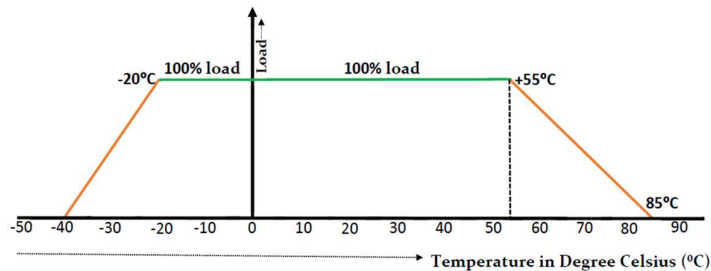
Negative output voltage configuration



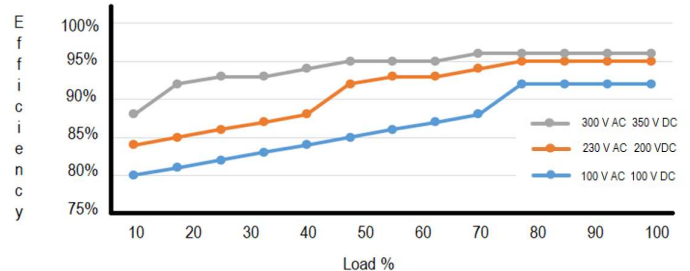
Dual (+Ve & -Ve) output voltage configuration



Capability matrix: Ambient Temperature Vs Power output



Efficiency Vs Input AC voltage



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

* Active output short circuit protection.