

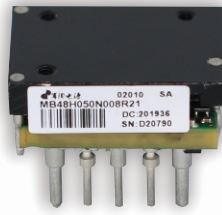
Thirty-Second-Brick

Open-frame



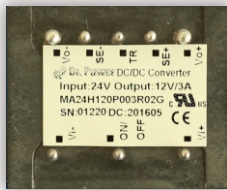
Size : 23.6×19.3×10.7 (mm)

Baseplate



Size : 25.9×19.3×12.7 (mm)

Encapsulated



Size : 26.19×21.7×12.7 (mm)

Flanged Baseplate



Size : 37.9×22.1×12.7 (mm)

Special features:

- Leading Thirty-Second-Brick size and feature sets
- Choose M or S grade for operating temperature: -55°C-100°C
- Multiple Package & Heatsink options
- High Efficiency: 87%-92% at full rated load
- Output power as high as 45W
- Output voltage trim range: 80% to 110%
- No minimum load required , outstanding performance on large output capacitance.
- Input under-voltage Lockout, output over-voltage protection, output over-current/short-circuit protection and over temperature protection
- Fixed frequency switching around 180-350kHz provides predictable EMI. Filters or EMI application circuit (compatible with Drpower converters) are provided to comply with military EMI requirements
- Rugged design for harsh environments
- Designed to meet military standards: GJB181A-2003, GJB181B-2012, GJB150-86, GJB150A-2009, GJB360B-2009, SJ20668-1998, GJB548B-2005
- Applications:
Military, avionics, ships and submarines

<i>1/32 Brick</i>	3.3V	5.0V	6.0V	8.0V	9.0V	12.0V	15.0V	28.0V
MA18 Series ⑤ (9-36Vin)	7A/23.1W	5A/25W		3A/24W		2A/24W		1A/28W
MB18 Series ⑤ (9-36Vin)		5A/25W				2A/24W		1A/28W
MA24 Series ⑤ (18-36Vin)	10A/33W	8A/40W		5A/40W		3A/36W	3A/45W	1.5A/42W
MB24 Series ⑤ (18-36Vin)	10A/33W	8A/40W				3A/36W		1.5A/42W
MB48 Series ⑥ (36-75Vin)	10A/33W	8A/40W				3A/36W		

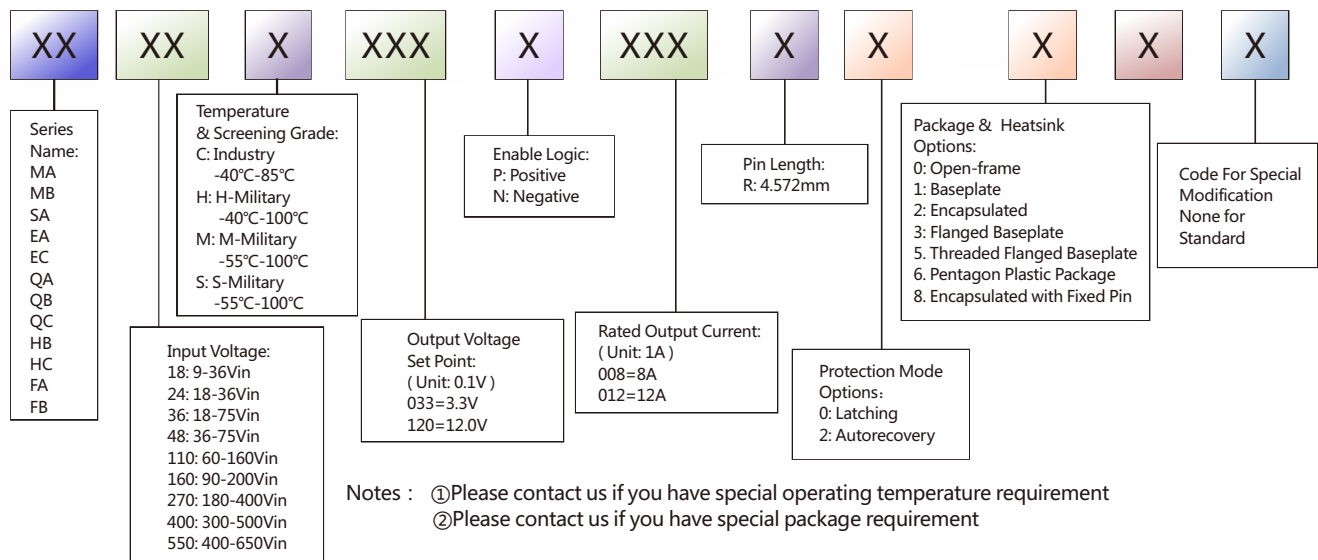
Notes: Ordering information and up right notes please refer page 10

Up Right Figure Notes :

- ① Fixed output voltage; ② The product is DC-DC power converter with fixed input-output ratio ;
 ③ The product's output voltage trim range:
 a. Wide output voltage range is 10% to 110% with suffix "-V", such as QB24H280P007N23G-V .
 b. Standard output voltage range is 80% to 110% such as QB24M280P007R22G
 ④ The product is not released; ⑤ Input surge withstand 50V/50ms; ⑥ Input surge withstand 80V/50ms;
 ⑦ Input voltage range 40-60V; ⑧ Detailed input voltage range refer to datasheet; ⑨ Constant output current ;
 ⑩ The input of some model can be improved to 180-420V, please contact us for more information.

Please contact us if you have some special output voltage trim range requirements.

Ordering Information



Screening Items	Process Description	C Grade	H Grade	M Grade	S Grade
Baseplate operating Temperature		-40°C ~ 85°C	-40 °C ~ 100 °C	-55°C ~ 100 °C	-55°C ~ 100 °C
Pre-Cap Inspection	GJB548B method 2017.1	√	√	√	√
Storage Temperature	GJB150.3A				√
Temperature Cycling	GJB548B method 1010.1		√	√	√
Middle Electrical Test	Reference spec		√	√	√
Burn-In	GJB548B method 1015.1		8H	48H	96H
Final Electrical Test	Reference spec	25°C	-40°C, 25 °C, 100 °C	-55°C, 25 °C, 100 °C	-55°C, 25 °C, 100 °C
Visual Inspection	GJB548B method 2009.1	√	√	√	√
Special request: Component DPA、Second Screening, etc					Optional