

Eighth-Brick

Open-frame



Size : 58.4×22.8×10.4 (mm)

Baseplate



Size : 58.4×22.8×12.7 (mm)

Encapsulated



Size : 61.0×25.2×12.7 (mm)

Encapsulated with Fixed Pin



Size : 61.0×25.2×12.7 (mm)

Encapsulated



Size : 64.5×37.5×12.7 (mm)

Special features:

- Leading Eighth-Brick size and feature sets
- Choose M or S grade for operating temperature: -55°C-100°C
- Multiple Package & Heatsink options
- High Efficiency: 89%-95% at full rated load
- Output power as high as 144W
- Output voltage trim range: 80% to 110%. For EA24 28Vout Series, output voltage trim range: 10% 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 which provides predictable EMI. Filters or EMI application circuit (compatible with Drpower converters) are provided to comply with military EMI requirements
- Rugged design for harsh environment
- 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

1/8 Brick	3.3V	5.0V	6.5V	8.0V	9V	12.0V	28.0V	48.0V
EA18 Series ^⑤ (9-36Vin)		20A/100W 25A/125W				8A/96W 10A/120W	5A/140W	
EA24 Series ^⑤ (18-36Vin)	15A/49.5W 35A/115.5W	10A/50W 25A/125W	19A/123.5W	15A/120W		7A/84W 10A/120W	3A/84W ^③ 5A/140W ^③	2A/96W
EA36 Series ^⑥ (18-75Vin)	30A/99W	14A/70W 20A/100W		15A/120W		6A/72W 10A/120W	4A/112W 5A/140W	
EA48 Series ^⑥ (6-75Vin)	30A/99W	10A/50W 20A/100W	6V/16A	15A/120W		5A/60W 10A/120W	5A/140W	3A/144W
EA160 Series (90-200Vin)		12A/60W	9A/58.5W					
EA270 Series ^{⑥⑩} (180-400Vin)		20A/100W				8A/96W	3.5A/98W	2A/96W

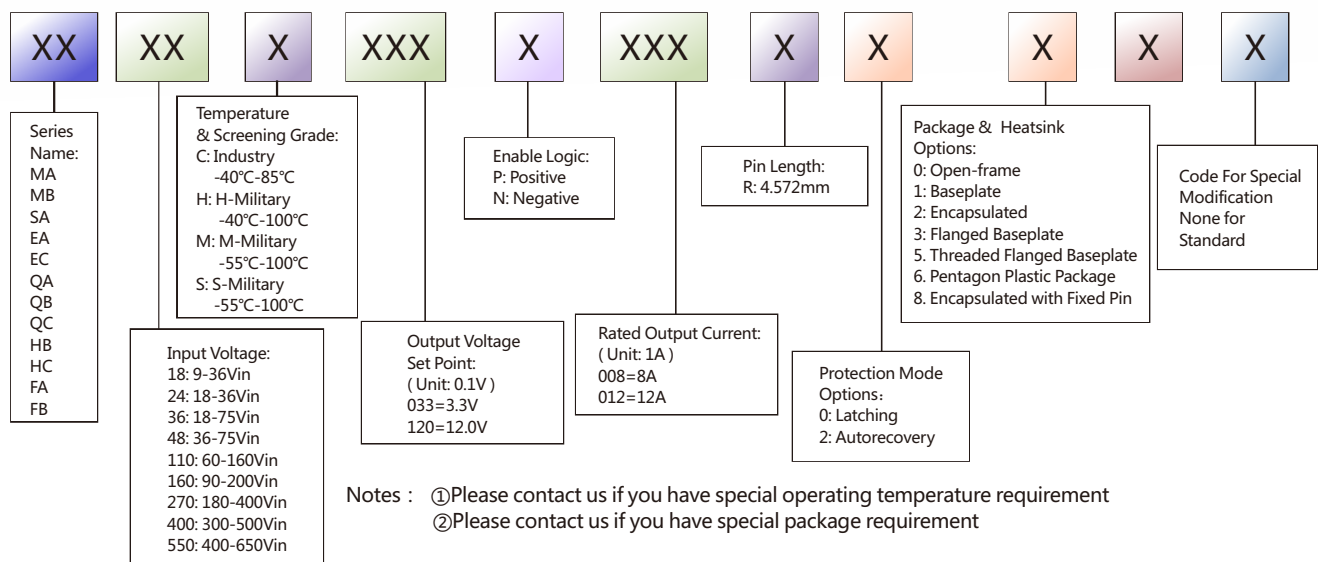
Notes: Ordering information and up right notes please refer page 10

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