

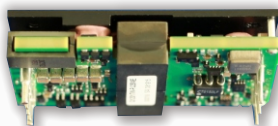
Quarter-Brick

Open-frame



Size : 58.2×37.1×10.2(mm)

Baseplate



Size : 58.2×37.1×12.7(mm)

Pentagon Plastic Package



Size : 60.6×39.4×12.7(mm)

Encapsulated



Size : 60.6×39.4×12.7(mm)

Encapsulated with Fixed Pin



Size : 60.6×39.4×12.7(mm)

Flanged Baseplate



Size : 64.3×51.7×12.7(mm)

Special features:

- Leading Quarter-Brick size and feature sets
- Choose M or S grade for operating temperature: -55°C-100°C
- Multiple Package & Heatsink options
- High Efficiency: 90%-96% at full rated load
- Output power as high as 360W
- Output voltage trim range: 80% to 110%. For QB24 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

1/4 Brick	3. 3V	5. 0V	6. 0V	8. 0V	12. 0V	15. 0V	28. 0V	48. 0V
QB18 Series ^⑤ (9-36Vin)		24A/120W 30A/150W 40A/200W			12A/144W		5A/140W	3A/144W
QB24 Series ^⑤ (18-36Vin)	60A/198W	40A/200W	33A/198W	25A/200W	17A/204W	13A/195W	4A/112W ^③ 7A/196W	4A/192W
QB30 Series ^⑥ (9-75Vin)					7A/84W			
QB36 Series ^⑥ (18-75Vin)	60A/198W	40A/200W	30A/180W	25A/200W	17A/204W	13A/195W	5A/140W	2A/96W
QB48 Series ^⑥ (36-75Vin)	60A/198W	40A/200W	30A/180W	30A/240W	17A/204W	13A/195W	5A/140W	2A/96W
QA160 Series (90-200Vin)		30A/150W						
QA270 Series ^⑩ (180-400Vin)		30A/150W 40A/200W			13A/156W		5A/140W	3A/144W
QC24 Series ^⑤ (18-36Vin)		50A/250W			25A/300W 30A/360W		11A/308W	6A/288W

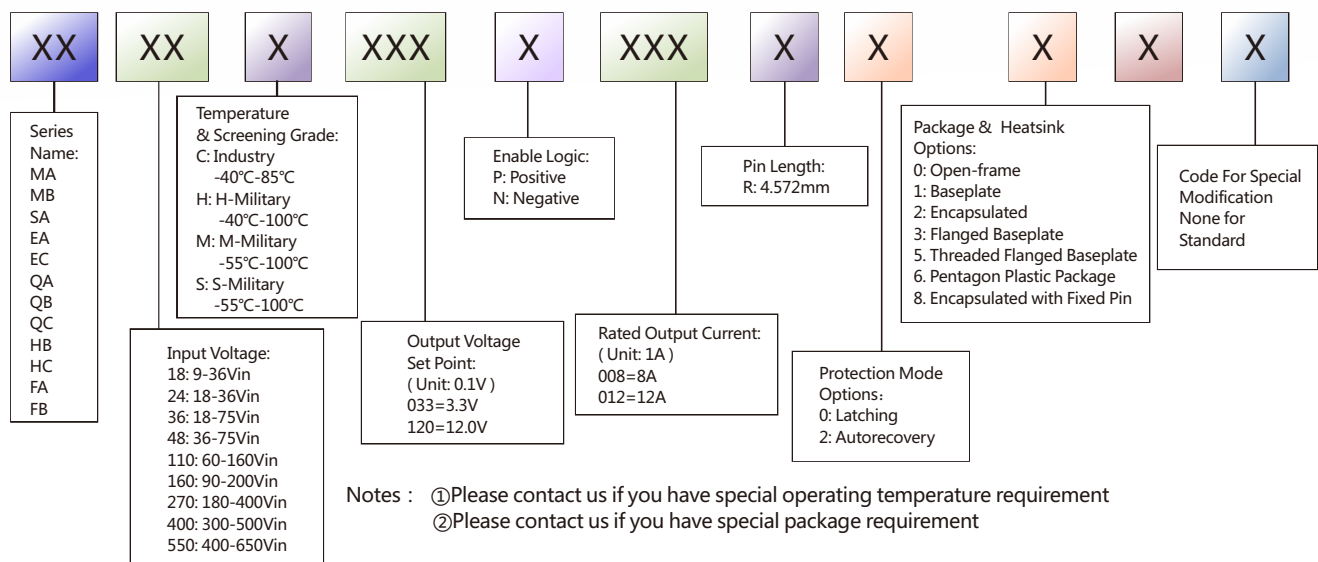
Notes: Ordering information and up right notes please refer page 10

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