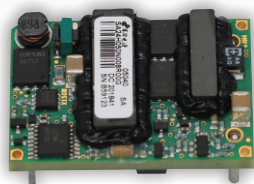


Sixteenth-Brick

Open-frame



Size : 33.3×23.1×9.7 (mm)

Baseplate



Size : 33.3×23.1×12.7 (mm)

Encapsulated



Size : 35.3×25.1×12.7 (mm)

Encapsulated with Fixed Pin



Size : 35.3×25.1×12.7 (mm)

Encapsulated



Size : 39.0×37.5×12.7 (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 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

1/16Brick	3.3V	5.0V	6.0V	8.0V	9.0V	12.0V	15.0V	28.0V
SA18 Series ^⑤ (9-36Vin)	10A/33W 15A/49.5W	10A/50W 12A/60W		4A/32W 7A/56W	6A/54W	3A/36W 5A/60W	3A/45W 4A/60W	2A/56W
SA24 Series ^⑤ (18-36Vin)	10A/33W 25A/82.5W	12A/60W 17A/85W	10A/60W 12A/72W	8A/64W 11A/88W	6A/54W	3A/36W 7.5A/90W	3A/45W 6A/90W	24V/4A 2.5A/70W
SA36 Series ^⑥ (18-75Vin)	10A/33W 15A/49.5W	10A/50W 12A/60W		4A/32W 7A/56W		3A/36W 5A/60W	3A/45W 4A/60W	
SA48 Series ^⑥ (36-75Vin)	25A/82.5W	17A/85W	11A/66W	8A/64W		7.5A/90W		2.5A/70W
SA160 Series (90-200Vin)		4A/20W				2A/24W		0.8A/22.4W
SA270 Series ^⑩ (180-400Vin)		4A/20W				2A/24W		0.8A/22.4W

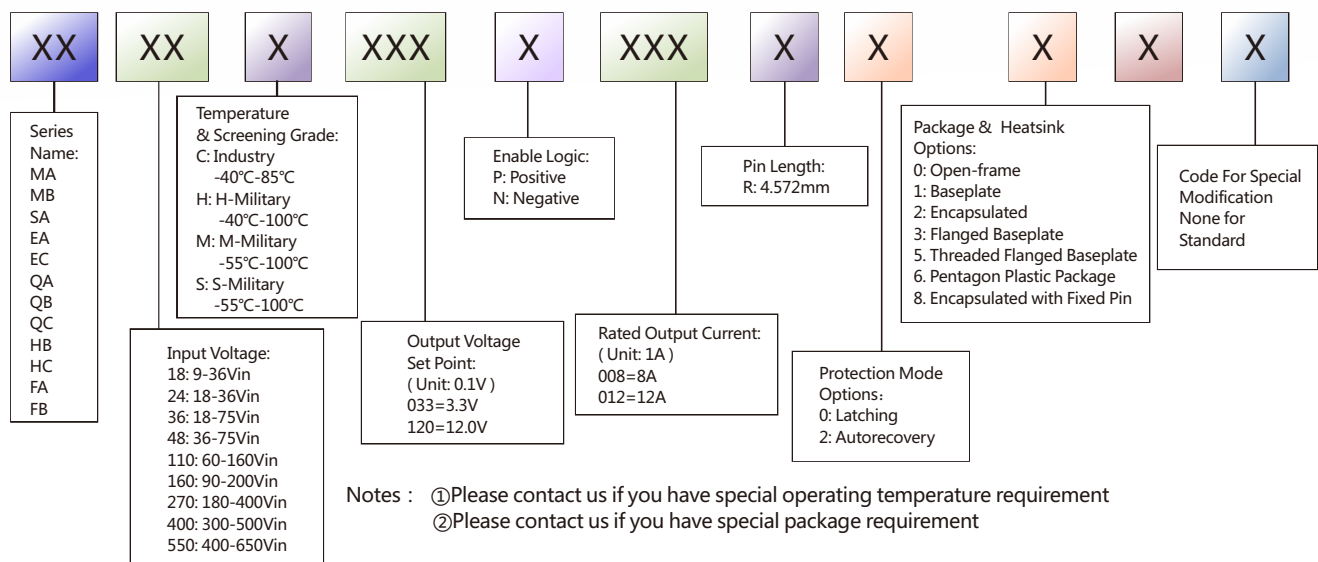
Notes: Ordering information and up right notes please refer page 10

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