

Half-Brick

Open-frame



Size : 61.2×58.2×10.1 (mm)

HB Series Pentagon Plastic Package



Size : 64.2×61.2×12.7 (mm)

Encapsulated



Size : 64.0×61.0×12.7 (mm)

HC Series Flanged Baseplate



Size : 57.9×55.9×12.7 (mm)

Special features:

- Leading Half-Brick size and feature sets
 - Choose M or S grade for operating temperature: -55°C-100°C
 - Multiple pPackage & Heatsink options
 - High Efficiency: 91.5%-94% at full rated load
 - Output power as high as 616W
 - 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 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 IDesigned 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>1/2 Brick</i>	5.0V	6.0V	8.0V	10.0V	12.0V	28.0V	36V	48.0V
HB18 Series ^⑤ (9-36Vin)	50A/250W				20A/240W	8A/224W		
HB24 Series ^⑤ (18-36Vin)	80A/400W		65A/520W		40A/480W 50A/600W	17A/476W 22A/616W	32.5V/16A ^⑧	10A/480W 50V/10A
HB36 Series ^⑥ (18-75Vin)			40A/320W		30A/360W			
HB48 Series ^⑥ (36-75Vin)	80A/400W	6.5V/65A			30A/360W 50A/600W	18A/504W 24V/25A		10A/480W
HB550Series (400-650Vin)				30A/300W	30A/360W	12.5A/350W 20A/560W	15A/540W 40V/15A ^⑧	
HB160 Series (90-200Vin)	67A/335W ^⑨ 80A/400W ^⑨					20A/560W ^⑨		
HB270 Series ^⑩ (180-400Vin)	60A/300W			40A/400W	33A/396W	14.5A/406W 18A/504W	11A/396W	
HB400 Series (300-500Vin)	60A/300W				33A/396W	14.5A/406W		
HC270 Series (180-400Vin)						8A/224W		

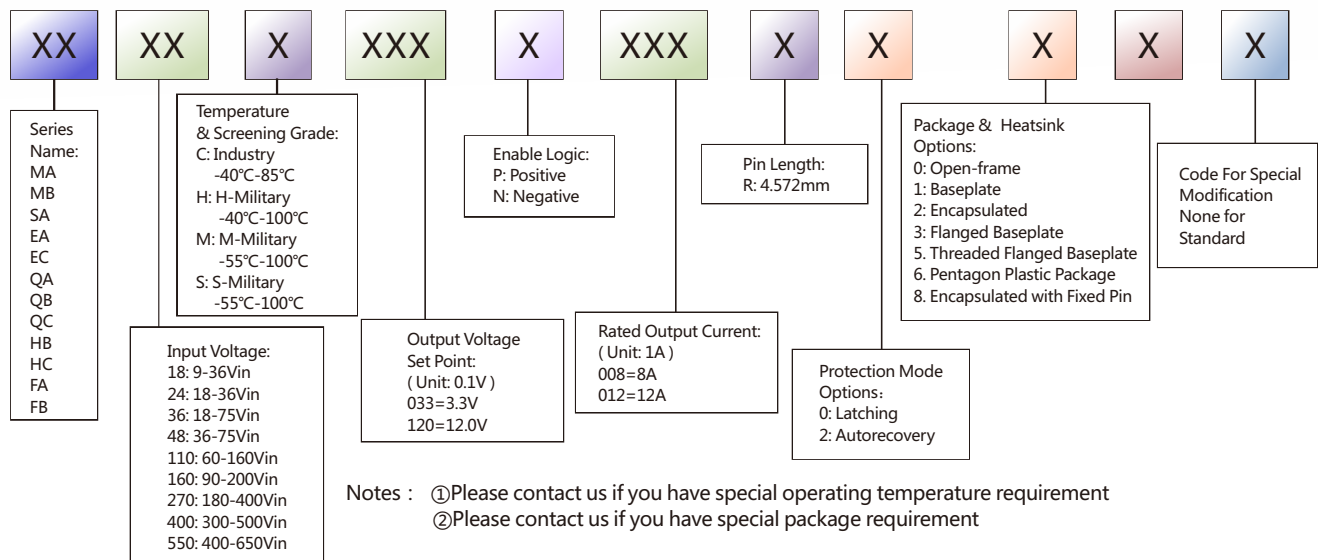
Notes: Ordering information and up right notes please refer page 10

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