



MICROELECTRONICS



Power Supply Module Product Selection Guide

High Reliability DC-DC Converter

Application



Avionics Systems



Radar Systems



Shipborne systems



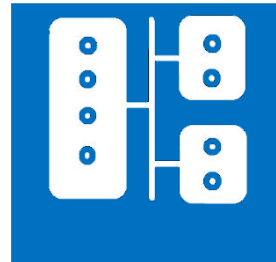
Vehicle Systems



Rail Transit Systems



Communication
Systems



Distributed Power
Systems



Industrial Control



BGQ350 Series

1/4 Brick High Voltage Input DC-DC Isolated Voltage Regulated Output

Product Introduction

The BGQ350 series is a high-voltage 2:1 input, highly reliable, high-efficiency DC-DC isolated voltage regulated output module power supply. It features a 1/4 brick fully sealed metal enclosure. This series of module power supplies adopts advanced modular design processes, with internal components sealed with epoxy resin gel, ensuring efficient heat dissipation and good insulation properties by closely adhering power semiconductors and magnetic devices to the metal casing. It includes functions such as input under-voltage protection, output over-voltage, over-current, and short-circuit protection, as well as over-temperature protection.

- High efficiency
- Built-in remote ON/OFF
- Compact DC-DC Converter, "BRICK"
- Built-in over-current, over-voltage and thermal protection circuits



Product Features

PWM Mode:	Fixed switching frequency	
Enable Control:	Logic level	
Voltage Regulation Accuracy:	$\pm 1.0\%$	
Output Voltage Trim:	$-20\% \sim +10\% \cdot V_o$	
Safety Protection Function:	Input under-voltage protection, output over-voltage protection, output over-current and short-circuit protection, over-temperature protection	
Isolation Voltage:	Input-Output: 2250Vdc; 100M Ω @500Vdc	
	Input-Enclosure: 1500Vdc; 100M Ω @500Vdc	
	Output-Enclosure: 750Vdc; 100M Ω @500Vdc	
Operating Case Temperature:	-40~+100°C (H-grade); -55~+105°C (M-grade)	
Storage Environment Temperature:	-55~+125°C (H-grade); -65~+125°C (M-grade)	
MTBF:	> 2 million hours	
Safety Performance:	UL/IEC/EN60950-1	
Environmental Performance:	Military-grade with lead, industrial-grade optional (default with lead)	



Naming Convention

350	-	X	S	X	X	X	X
Rated Output Power (W)		Input Voltage Range	Single Output	Output Voltage	Quality Grade(optional)	Package Type(optional)	Package Size(optional)
		270: Rated input 270V; Input Range: 180-425V; 540: Rated input 540V; Input Range: 380-700V;		0x=xV xx=xxV	I: Industry (-40 °C~+85 °C) M: Military (-50°C~+125 °C) A: Aerospace(-55°C~+150°C) C: Commodity (0 °C~+70 °C) V: Automotive (-40°C~125C)	C: Metal Shell Threaded Holes T: Metal Shell Through Hole; K: Open Heatsink; B: Bare;	A: full brick B: 1/2 brick C:1/4 brick D:1/8 brick E:1/16 brick

**Product Selection**

Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE300-270S05V _{xxx}	300W	180-425V	5V	60.0A	92.0%	100mVp-p
TE300-270S06V _{xxx}	300W	180-425V	6V	50.0A	92.0%	100mVp-p
TE350-270S09V _{xxx}	350W	180-425V	9V	38.89A	92.5%	100mVp-p
TE350-270S12V _{xxx}	350W	180-425V	12V	29.17A	92.5%	150mVp-p
TE350-270S15V _{xxx}	350W	180-425V	15V	23.33A	92.5%	200mVp-p
TE300-270S24V _{xxx}	300W	180-425V	24V	12.5A	93.0%	200mVp-p
TE350-270S28V _{xxx}	350W	180-425V	28V	12.5A	93.0%	200mVp-p
TE350-270S36V _{xxx}	350W	180-425V	36V	9.72A	93.0%	200mVp-p
TE350-270S48V _{xxx}	350W	180-425V	48V	7.29A	93.0%	200mVp-p
TE300-540S05V _{xxx}	300W	380-700V	5V	60.0A	92.0%	100mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE300-540S06Vxxx	300W	380-700V	6V	50.0A	92.0%	100mVp-p
TE300-540S09Vxxx	350W	380-700V	9V	38.89A	92.5%	100mVp-p
TE300-540S12Vxxx	350W	380-700V	12V	29.17A	93.0%	150mVp-p
TE300-540S15Vxxx	350W	380-700V	15V	23.33A	93.0%	200mVp-p
TE300-540S24Vxxx	350W	380-700V	24V	14.58A	93.0%	200mVp-p
TE300-540S28Vxxx	350W	380-700V	28V	12.5A	93.0%	200mVp-p
TE300-540S36Vxxx	350W	380-700V	36V	9.72A	93.0%	200mVp-p
TE300-540S48Vxxx	350W	380-700V	48V	7.29A	93.0%	200mVp-p

Pin	Symbol	Function
1	Vin -	Input voltage negative terminal
3	CNT	Enable control signal terminal
4	Vin +	Input voltage positive terminal
5	Vout +	Output voltage positive terminal
6	+ S	Remote sense positive input
7	TRIM	Output voltage trimming terminal
8	- S	Remote sense negative input
9	Vout -	Output voltage negative terminal

**TE150-270****1/8 Brick Flanged High Voltage Input DC-DC Isolated Voltage Regulated****Product Introduction**

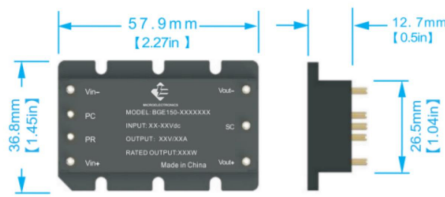
The TE150-270 series is a high-voltage 2:1 input, highly reliable, high-efficiency DC-DC isolated voltage regulated output module power supply. It features a 1/8 brick flanged structure with a fully sealed metal enclosure, compatible with VICOR module dimensions and pinouts. This series of module power supplies adopts advanced modular design processes, with internal components sealed with epoxy resin gel, ensuring efficient heat dissipation and good insulation properties by closely adhering power semiconductors and magnetic devices to the metal casing. It includes functions such as input under-voltage protection, output over-voltage, over-current, and short-circuit protection, as well as over-temperature protection.

- High efficiency
- Built-in remote ON/OFF
- Compact DC-DC Converter, "BRICK SIZE"
- Built-in over-current, over-voltage and thermal protection circuits
- High density



Product Features

PWM Mode:	Fixed switching frequency		
Enable Control:	Logic level		
Voltage Regulation Accuracy:	±1.0%		
Output Voltage Trim:	-20%~+10%*Vo		
Safety Protection Function:	Input under-voltage protection, output over-voltage protection, output over-current and short-circuit protection, over-temperature protection		
	Input-Output: 2250Vdc; 100MΩ@500Vdc		
	Isolation Voltage:		
Output-Enclosure: 750Vdc; 100MΩ@500Vdc			
Operating Case Temperature:	-40~+100℃ (H-grade); -55~+105℃ (M-grade)		
Storage Environment Temperature:	-55~+125℃ (H-grade); -65~+125℃ (M-grade)		
MTBF:	> 2 million hours		
Safety Performance:	UL/IEC/EN60950-1		
Environmental Performance:	Military-grade with lead, industrial-grade optional (default with lead)		





Naming Convention

150	-	X	S	X	X	X	X
Rated Output Power (W)		Input Voltage Range	Single Output	Output Voltage	Quality Grade(optional)	Package Type(optional)	Package Size(optional)
		270: Rated input270V , Input range180~4 25V;		3V3=3.3V 0x=xV xx=xxV	I: Industry (-40 °C~+85 °C) M: Military (-50°C~+125 °C) A: Aerospace(-55°C~+150°C) C: Commodity (0 °C~+70 °C) V: Automotive (-40°C~125C)	C: Metal Shell Threaded Holes T: Metal Shell Through Hole; K: Open Heatsink; B: Bare;	A: full brick B: 1/2 brick C:1/4 brick D:1/8 brick E:1/16 brick

**Product Selection**

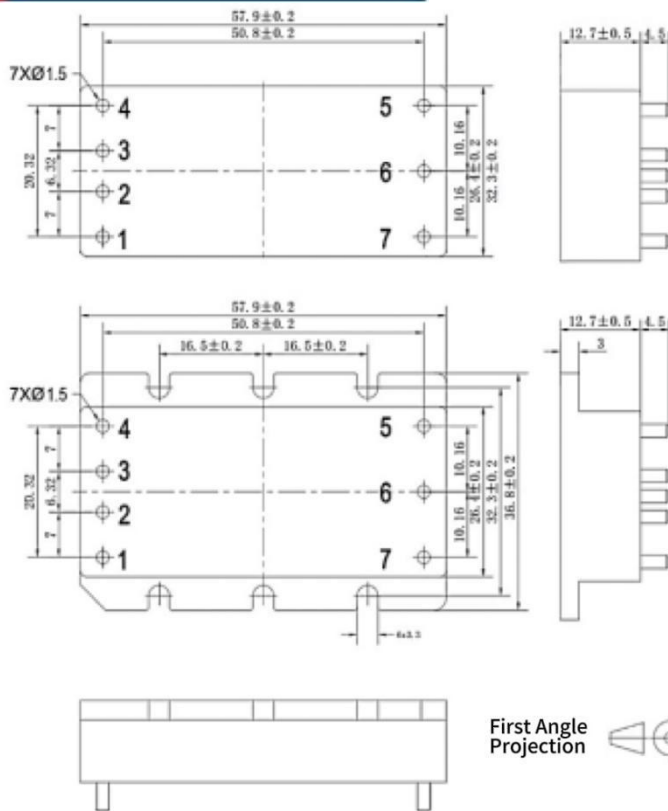
Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE60-270S3V3xxx	100W	180~425V	3.3V	18.2A	85.0%	50mVp-p
TE100-270S05xxx	100W	180~425V	5V	20.0A	87.0%	50mVp-p
TE100-270S06xxx	100W	180~425V	6V	16.67A	87.0%	50mVp-p
TE100-270S08xxx	100W	180~425V	8V	12.5A	88.0%	50mVp-p
TE100-270S09xxx	100W	180~425V	9V	11.1A	88.0%	50mVp-p
TE100-270S12xxx	100W	180~425V	12V	8.33A	88.0%	100mVp-p
TE100-270S15xxx	100W	180~425V	15V	6.67A	88.0%	100mVp-p
TE100-270S24xxx	100W	180~425V	24V	4.16A	89.0%	150mVp-p
TE100-270S28xxx	100W	180~425V	28V	3.57A	89.0%	150mVp-p
TE100-270S36xxx	100W	180~425V	36V	2.78A	89.0%	200mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE100-270S48xxx	100W	180~425V	48V	2.08A	89.0%	200mVp-p
TE150-270S12xxx	150W	180~425V	12V	12.5A	88.0%	100mVp-p
TE150-270S15xxx	150W	180~425V	15V	10.0A	88.0%	100mVp-p
TE150-270S24xxx	150W	180~425V	24V	6.25A	89.0%	150mVp-p
TE150-270S28xxx	150W	180~425V	28V	5.36A	89.0%	150mVp-p
TE150-270S36xxx	150W	180~425V	36V	4.17A	89.0%	200mVp-p
TE150-270S48xxx	150W	180~425V	48V	3.125A	89.0%	200mVp-p



Module Package Dimensions



Pin	Symbol	Function
1	Vin +	Input voltage positive terminal
2	PC	Enable control signal terminal
3	NC	No electrical function
4	Vin -	Input voltage negative terminal
5	Vout -	Output voltage negative terminal
6	TRIM	Output voltage trimming terminal
7	Vout +	Output voltage positive terminal



TE600 Series

Half Brick Low Voltage Input DC-DC Isolated Voltage Regulated Output

Product Introduction

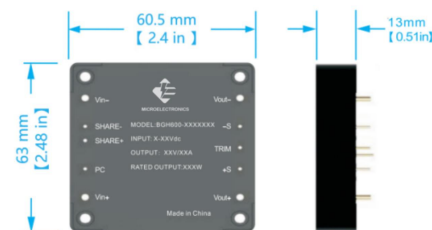
TE600 Series is a low-voltage 2:1 input, highly reliable, high-efficiency DC-DC isolated voltage regulated output module power supply. The shape structure is a half-brick fully sealed metal enclosure. This series of module power supplies adopts advanced modular design processes, with internal components sealed with epoxy resin gel, ensuring efficient heat dissipation and good insulation properties by closely adhering power semiconductors and magnetic devices to the metal casing. It includes functions such as input under-voltage protection, output over-voltage, over-current, and short-circuit protection, as well as over-temperature protection.

- High efficiency
- Low-voltage input
- Compact DC-DC Converter, "BRICK SIZE"
- Built-in remote ON/OFF
- High density
- Built-in over-current, over-voltage and thermal protection circuits



Product Features

PWM Mode:	Fixed switching frequency
Enable Control:	Logic level
Voltage Regulation Accuracy:	±1.0%
Output Voltage Trim:	-20%~+10%*V _o
Safety Protection Function:	Input under-voltage protection, output over-voltage protection, output over-current and short-circuit protection, over-temperature protection
Isolation Voltage:	Input-Output: 2250Vdc; 100MΩ@500Vdc
	Input-Enclosure: 1500Vdc; 100MΩ@500Vdc
	Output-Enclosure: 750Vdc; 100MΩ@500Vdc
Operating Case Temperature:	-40~+100°C (H-grade); -55~+105°C (M-grade)
Storage Environment Temperature:	-55~+125°C (H-grade); -65~+125°C (M-grade)
MTBF:	> 2 million hours
Safety Performance:	UL/IEC/EN60950-1
Environmental Performance:	Military-grade with lead, industrial-grade optional (default with lead)





Naming Convention

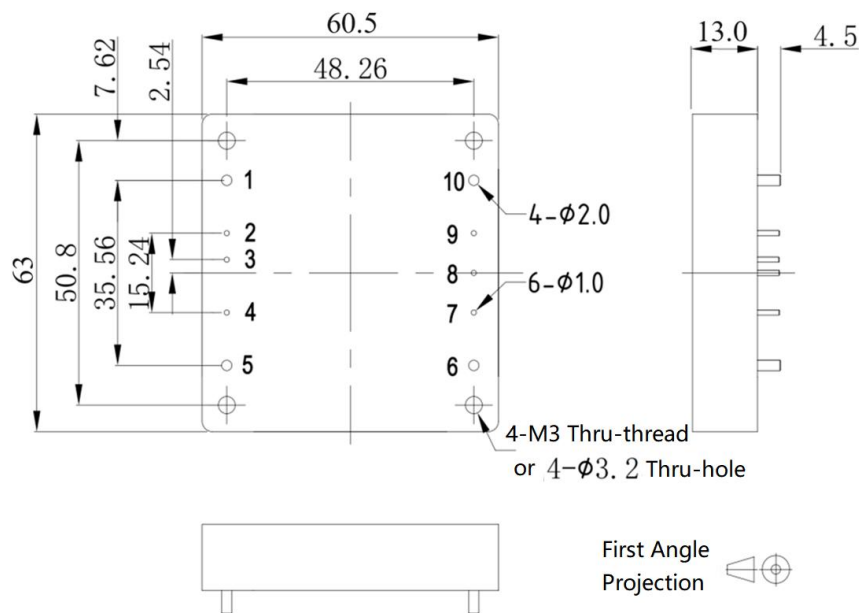
600	-	X	S	X	X	X	X
Rated Output Power (W)		Input Voltage Range	Single Output	Output Voltage	Quality Grade(optional)	Package Type(optional)	Package Size(optional)
		24; Rated input24V, Input Range16~40V;		0x=xV xx=xxV	I: Industry (-40 °C~+85 °C) M: Military (-50°C~+125 °C) A: Aerospace(-55°C~+150°C) C: Commodity (0 °C~+70 °C) V: Automotive (-40°C~125C)	C: Metal Shell Threaded Holes T: Metal Shell Through Hole; K: Open Heatsink; B: Bare;	A: full brick B: 1/2 brick C:1/4 brick D:1/8 brick E:1/16 brick

**Product Selection**

Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE400-24S05xxxx	400W	16~40V	5V	80.0A	91.0%	100mVp-p
TE600-24S12xxxx	600W	16~40V	12V	50.0A	92.5%	100mVp-p
TE600-24S15xxxx	600W	16~40V	15V	40.0A	92.5%	100mVp-p
TE600-24S24xxxx	600W	16~40V	24V	25.0A	93.0%	200mVp-p
TE600-24S28xxxx	600W	16~40V	28V	21.42A	93.0%	200mVp-p
TE600-24S36xxxx	600W	16~40V	36V	16.67A	92.5%	300mVp-p
TE600-24S48xxxx	600W	16~40V	48V	12.5A	92.5%	300mVp-p



Module Package Dimensions



Pin	Symbol	Function
1	Vin -	Input voltage negative terminal
2	SHARE -	Current sharing bus negative terminal
3	SHARE +	Current sharing bus positive terminal
4	CNT	Enable control signal terminal
5	Vin +	Input voltage positive terminal
6	Vout +	Output voltage positive terminal
7	+ S	Remote sense positive input
8	TRIM	Output voltage trimming terminal
9	- S	Remote sense negative input
10	Vout -	Output voltage negative terminal



TE1000 Series **Standard 1/2 Brick High Voltage Input DC-DC Isolated Voltage Regulated Output**

Product

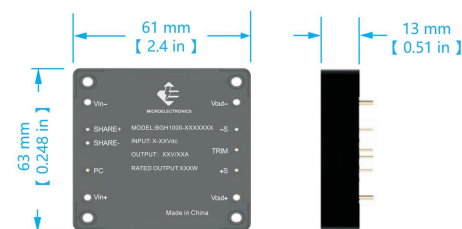
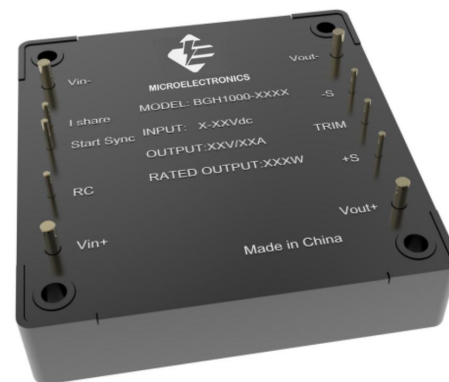
TE1000 Series is a high-voltage 2:1 input, highly reliable, high-efficiency DC-DC isolated voltage regulated output module power supply. The shape structure is a standard 1/2 brick fully sealed metal enclosure. This series of module power supplies adopts advanced modular design processes, with internal components sealed with epoxy resin gel, ensuring efficient heat dissipation and good insulation properties by closely adhering power semiconductors and magnetic devices to the metal casing. It includes functions such as input under-voltage protection, output over-voltage, over-current, and short-circuit protection, as well as over-temperature protection.

- High efficiency
- Compact DC-DC Converter, "BRICK SIZE"
- High density
- High-voltage input
- Built-in remote ON/OFF
- Built-in over-current, over-voltage and thermal protection circuits



Product Features

PWM Mode:	Fixed switching frequency
Enable Control:	Logic level
Voltage Regulation Accuracy:	$\pm 1.0\%$
Output Voltage Trim:	$-20\% \sim +10\% \cdot V_o$
Safety Protection Function:	Input under-voltage protection, output over-voltage protection, output over-current and short-circuit protection, over-temperature protection
Isolation Voltage:	Input-Output: 2250Vdc; 100M Ω @500Vdc
	Input-Enclosure: 2250Vdc; 100M Ω @500Vdc
	Output-Enclosure: 750Vdc; 100M Ω @500Vdc
Operating Case Temperature:	$-40 \sim +100^\circ\text{C}$ (H-grade); $-55 \sim +105^\circ\text{C}$ (M-grade)
Storage Environment Temperature:	$-55 \sim +125^\circ\text{C}$ (H-grade); $-65 \sim +125^\circ\text{C}$ (M-grade)
MTBF:	> 2 million hours
Safety Performance:	UL/IEC/EN60950-1
Environmental Performance:	Military-grade with lead, industrial-grade optional (default with lead)





Naming Convention

1000	-	X	S	X	X	X	X
Rated Output Power (W)		Input Voltage Range	Single Output	Output Voltage	Quality Grade(optional)	Package Type(optional)	Package Size(optional)
		270: Rated input 270V; Input Range: 180-425V; 540: Rated input 540V; Input Range: 380-700V;		0x=xV xx=xxV	I: Industry (-40 °C~+85 °C) M: Military (-50°C~+125 °C) A: Aerospace(-55°C~+150°C) C: Commodity (0 °C~+70 °C) V: Automotive (-40°C~125C)	C: Metal Shell Threaded Holes T: Metal Shell Through Hole; K: Open Heatsink; B: Bare;	A: full brick B: 1/2 brick C:1/4 brick D:1/8 brick E:1/16 brick

**Product Selection**

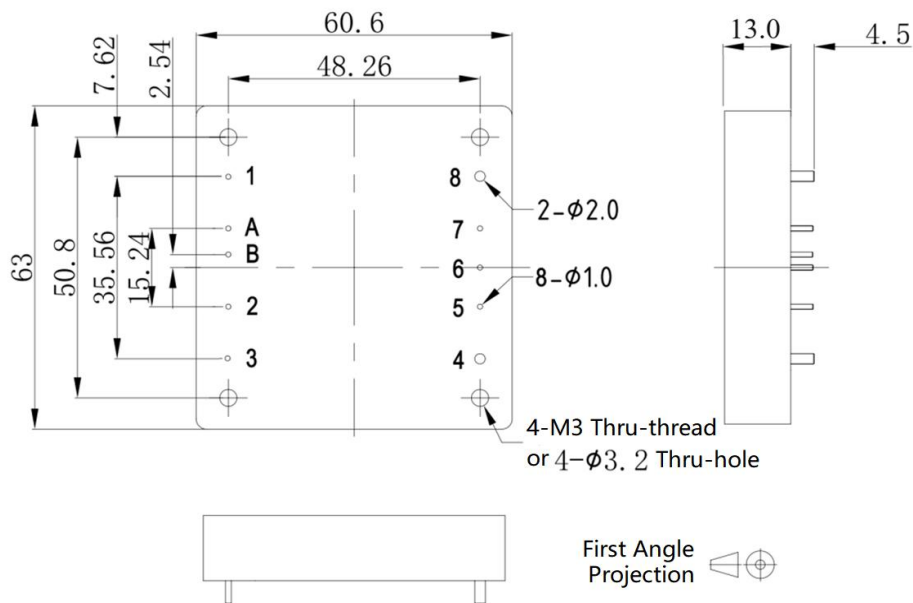
Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE500-270S05xxx	500W	180~425V	5V	100.0A	94.0%	80mVp-p
TE800-270S12xxx	800W	180~425V	12V	66.67A	94.5%	100mVp-p
TE800-270S15xxx	800W	180~425V	15V	53.3A	94.5%	100mVp-p
TE800-270S24xxx	800W	180~425V	24V	33.3A	94.5%	200mVp-p
TE800-270S28xxx	800W	180~425V	28V	28.6A	95.0%	200mVp-p
TE800-270S36xxx	800W	180~425V	36V	22.2A	95.0%	250mVp-p
TE800-270S48xxx	800W	180~425V	48V	16.67A	95.0%	300mVp-p
TE800-540S12xxx	800W	380~700V	12V	66.67A	94.5%	100mVp-p
TE800-540S15xxx	800W	380~700V	15V	53.3A	94.5%	150mVp-p
TE800-540S24xxx	800W	380~700V	24V	33.3A	94.5%	200mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE800-540S28xxx	800W	380~700V	28V	28.6A	95.0%	200mVp-p
TE800-540S36xxx	800W	380~700V	36V	22.2A	95.0%	250mVp-p
TE800-540S48xxx	800W	380~700V	48V	16.67A	95.0%	300mVp-p
TE1000-270S12xxx	1000W	180~425V	12V	83.33A	94.5%	100mVp-p
TE1000-270S15xxx	1000W	180~425V	15V	66.67A	94.5%	100mVp-p
TE1000-270S24xxx	1000W	180~425V	24V	41.67A	94.5%	200mVp-p
TE1000-270S28xxx	1000W	180~425V	28V	35.71A	95.0%	200mVp-p
TE1000-270S36xxx	1000W	180~425V	36V	27.78A	95.0%	250mVp-p
TE1000-270S48xxx	1000W	180~425V	48V	20.83A	95.0%	300mVp-p
TE1000-540S12xxx	1000W	380~700V	12V	83.33A	94.5%	100mVp-p
TE1000-540S15xxx	1000W	380~700V	15V	66.67A	94.5%	150mVp-p
TE1000-540S24xxx	1000W	380~700V	24V	41.67A	94.5%	200mVp-p
TE1000-540S28xxx	1000W	380~700V	28V	35.71A	95.0%	200mVp-p
TE1000-540S36xxx	1000W	380~700V	36V	27.78A	95.0%	250mVp-p
TE1000-540S48xxx	1000W	380~700V	48V	20.83A	95.0%	300mVp-p



Module Package Dimensions



Pin	Symbol	Function
1	Vin-	Input voltage negative terminal
A	I SHARE	Current sharing terminal
B	SYNC	Synchronization start signal terminal
2	CNT	Remote control terminal
3	Vin+	Input voltage positive terminal
4	Vout+	Output voltage positive terminal
5	+S	Remote sense positive input
6	TRIM	Output voltage trimming terminal
7	-S	Remote sense negative input
8	Vout-	Output voltage negative terminal

**TE2000 Series****Full Brick High Voltage Input DC-DC Isolated Regulated Output****Product Introduction**

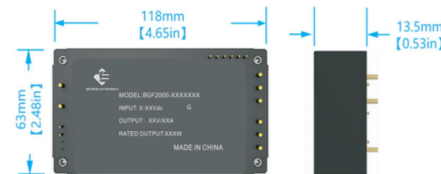
The TE2000 series is a high voltage (2:1) input, high reliability, high efficiency DC-DC isolated regulated output module power supply. The shaped structure is a fully sealed aluminum substrate full brick. This series of module power supplies adopts advanced modular process design, with internal components sealed with epoxy resin glue, power semiconductors and magnetic devices adhered to the aluminum substrate for efficient heat dissipation and excellent insulation performance. It features input over/under-voltage protection, output over-voltage, over-current, short circuit protection, and over-temperature protection.

- High efficiency
- High-voltage input
- Compact DC-DC Converter, "BRICK SIZE"
- Built-in remote ON/OFF
- High density
- Built-in over-current, over-voltage and thermal protection circuits



Product Features

Component Localization Rate:	100%
PWM Mode:	Fixed switching frequency
Enable Control:	Logic level
Voltage Regulation Accuracy:	±1.0%
Output Voltage Trim:	-20%~+10%*V _O
Safety Protection Function:	Input under-voltage protection, output over-voltage protection, output over-current and short-circuit protection, over-temperature protection
Isolation Voltage:	Input-Output: 4250Vdc; 100MΩ@500Vdc
	Input-substrate: 3000Vdc; 100MΩ@500Vdc
	Output-substrate: 750Vdc; 100MΩ@500Vdc
Operating Case Temperature:	-40~+100°C(H-grade); -55~+105°C(M-grade)
Storage Environment Temperature:	-55~+125°C(H-grade); -65~+125°C(M-grade)
MTBF:	> 2 million hours
Safety Performance:	UL/IEC/EN60950-1
Environmental Performance:	Military-grade with lead, industrial-grade optional (default with lead)





Naming Convention

2000	-	X	S	X	X	X	X
Rated Output Power (W)		Input Voltage Range	Single Output	Output Voltage	Quality Grade(optional)	Package Type(optional)	Package Size(optional)
		270: Rated input: 270V, Wide range: 180~425V; 540: Rated input: 540V, Wide range: 380~850V;		0x=xV xx=xxV	I: Industry (-40 °C~+85 °C) M: Military (-50°C~+125 °C) A: Aerospace(-55°C~+150°C) C: Commodity (0 °C~+70 °C) V: Automotive (-40°C~125C)	C: Metal Shell Threaded Holes T: Metal Shell Through Hole; K: Open Heatsink; B: Bare;	A: full brick B: 1/2 brick C:1/4 brick D:1/8 brick E:1/16 brick

**Product Selection**

Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE1200-270S12xxx	1200W	180-425V	12V	100.0A	94.5%	120mVp-p
TE1200-270S15xxx	1200W	180-425V	15V	80.0A	94.5%	120mVp-p
TE1200-270S24xxx	1200W	180-425V	24V	50.0A	95.0%	200mVp-p
TE1200-270S28xxx	1200W	180-425V	28V	42.9A	95.5%	200mVp-p
TE1200-270S36xxx	1200W	180-425V	36V	33.33A	95.5%	200mVp-p
TE1200-270S48xxx	1200W	180-425V	48V	25.0A	96.0%	200mVp-p
TE1500-270S15xxx	1500W	180-425V	15V	100.0A	94.5%	150mVp-p
TE1500-270S24xxx	1500W	180-425V	24V	62.5A	95.0%	200mVp-p
TE1500-270S28xxx	1500W	180-425V	28V	53.57A	95.5%	200mVp-p
TE1500-270S36xxx	1500W	180-425V	36V	41.67A	95.5%	200mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE1500-270S48xxx	1500W	180-425V	48V	31.25A	96.0%	200mVp-p
TE2000-270S24xxx	2000W	180-425V	24V	83.33A	95.0%	200mVp-p
TE2000-270S28xxx	2000W	180-425V	28V	71.4A	95.5%	200mVp-p
TE2000-270S36xxx	2000W	180-425V	36V	55.55A	95.5%	200mVp-p
TE2000-270S48xxx	2000W	180-425V	48V	41.67A	96.0%	200mVp-p
TE1200-540S12xxx	1200W	380-850V	12V	100.0A	94.5%	120mVp-p
TE1200-540S15xxx	1200W	380-850V	15V	80.0A	94.5%	120mVp-p
TE1200-540S24xxx	1200W	380-850V	24V	50.0A	95.0%	200mVP-P
TE1200-540S28xxx	1200W	380-850V	28V	42.9A	95.5%	200mVp-p
TE1200-540S36xxx	1200W	380-850V	36V	33.33A	95.5%	250mVp-p
TE1200-540S48xxx	1200W	380-850V	48V	25.07A	96.0%	300mVp-p
TE1200-540S60xxx	1200W	380-850V	60V	20.0A	96.0%	300mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE1200-540S60xxx	1200W	380-850V	60V	20.0A	96.0%	300mVp-p
TE1500-540S15xxx	1500W	380-850V	15V	100.0A	94.5%	150mVp-p
TE1500-540S24xxx	1500W	380-850V	24V	62.5A	95.0%	200mVp-p
TE1500-540S28xxx	1500W	380-850V	28V	53.57A	95.5%	200mVP-P
TE1500-540S36xxx	1500W	380-850V	36V	41.67A	95.5%	250mVP-P
TE1500-540S48xxx	1500W	380-850V	48V	31.25A	96.0%	300mVp-p
TE1500-540S60xxx	1500W	380-850V	60V	25.0A	96.0%	300mVp-p
TE2000-540S24xxx	2000W	380-850V	24V	83.33A	95.0%	200mVp-p
TE2000-540S28xxx	2000W	380-850V	28V	71.4A	95.5%	200mVP-P
TE2000-540S36xxx	2000W	380-850V	36V	55.55A	95.5%	250mVP-P
TE2000-540S48xxx	2000W	380-850V	48V	41.67A	96.0%	300mVp-p
TE2000-540S60xxx	2000W	380-850V	60V	33.33A	96.0%	300mVp-p
TE2000-540S72xxx	2000W	380-850V	72V	27.78A	96.0%	300mVp-p

118.5 ± 0.5
 106.7 ± 0.5
 6.09
 4.84
 6-Ø1
 5X3.81
 7.64
 16 15 14 13 12 11
 7.6
 10
 9
 8
 7
 6
 5
 8-Ø2.0
 6.35 ± 0.35
 10.2 ± 0.2
 6.35 ± 0.35
 50.8 ± 0.5
 12.72
 10.16
 10.16
 3.81
 2-Ø1
 1
 2
 3
 4
 4-M3 or 4-Ø3.2
 MODEL: BGFX-XXX-XXXSXXH
 INPUT: XXX-XXXVdc
 O U T: XXV/XXA
 RATED OUTPUT: XXXXW
 MADE IN CHINA
 please specify when placing an order

First Angle Projection 

30/61

**TE200****Standard 1/8 Brick Low Voltage Wide Range Input DC-DC Isolated Regulated Output****Product Introduction**

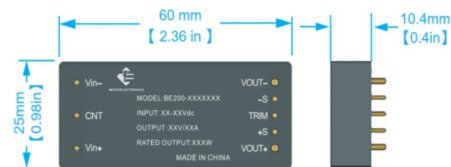
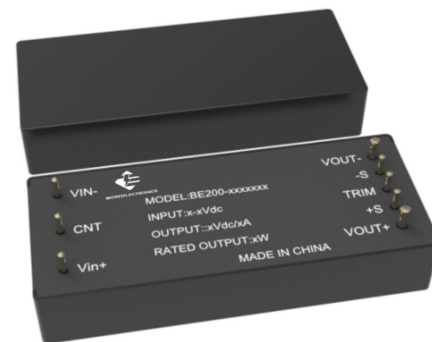
TE200 series is a low voltage wide range (2:1&4:1) input, high reliability, high efficiency DC-DC isolated voltage regulated output module power supply. The appearance structure is a standard 1/8 brick fully sealed metal shell. This series of module power supplies adopts advanced modular process design, and the internal epoxy resin glue is sealed. The power semiconductor and magnetic devices are close to the metal shell for heat conduction, and the heat dissipation and insulation performance are good. It has input under-voltage protection, output over-voltage, over-current, short circuit protection, over-temperature protection and other functions.

- High efficiency
- Low voltage wide range input
- Compact DC-DC Converter, "BRICK SIZE"
- Built-in remote ON/OFF
- High density
- Built-in over-current, over-voltage and thermal protection circuits



Product Features

PWM Mode:	Fixed switching frequency
Enable Control:	Logic level
Voltage Regulation Accuracy:	$\pm 1.0\%$
Output Voltage Trim:	$-20\% \sim +10\% \cdot V_o$
Safety Protection Function:	Input under-voltage protection, output over-voltage protection, output over-current and short-circuit protection, over-temperature protection
Isolation Voltage:	Input-Output: 2250Vdc; 100M Ω @500Vdc
	Input-Enclosure: 1500Vdc; 100M Ω @500Vdc
	Output-Enclosure: 750Vdc; 100M Ω @500Vdc
Operating Case Temperature:	-40~+100°C (H-grade); -55~+105°C (M-grade)
Storage Environment Temperature:	-55~+125°C (H-grade); -65~+125°C (M-grade)
MTBF:	> 2 million hours
Safety Performance:	UL/IEC/EN60950-1
Environmental Performance:	Military-grade with lead, industrial-grade optional (default with lead)





Naming Convention

200	-	X	S	X	X	X	X
Rated Output Power (W)		Input Voltage Range	Single Output	Output Voltage	Quality Grade(optional)	Package Type(optional)	Package Size(optional)
		24: Rated input 24V, Input Range 16~40V; 24W: Rated input 24V, Wide range input 9~40V;		3V3=3.3V 0x=xV xx=xxV	I: Industry (-40 °C~+85 °C) M: Military (-50°C~+125 °C) A: Aerospace(-55°C~+150°C) C: Commodity (0 °C~+70 °C) V: Automotive (-40°C~125C)	C: Metal Shell Threaded Holes T: Metal Shell Through Hole; K: Open Heatsink; B: Bare;	A: full brick B: 1/2 brick C:1/4 brick D:1/8 brick E:1/16 brick

**Product Selection**

Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE150-24WS3V3xxx	150W	9~40V	3.3V	45.45A	91.0%	50mVp-p
TE200-24WS05xxx	200W	9~40V	5V	40A	92.0%	50mVp-p
TE200-24WS06xxx	200W	9~40V	6V	33.33A	92.5%	50mVp-p
TE200-24WS08xxx	200W	9~40V	8V	25A	92.5%	50mVp-p
TE200-24WS09xxx	200W	9~40V	9V	22.2A	92.5%	50mVp-p
TE200-24WS12xxx	200W	9~40V	12V	16.67A	93.5%	100mVp-p
TE200-24WS15xxx	200W	9~40V	15V	13.33A	93.0%	100mVp-p
TE200-24WS24xxx	200W	9~40V	24V	8.33A	93.0%	200mVp-p
TE200-24WS28xxx	200W	9~40V	28V	7.14A	93.0%	150mVp-p
TE200-24WS36xxx	200W	9~40V	36V	5.55A	93.0%	150mVp-p
TE200-24WS48xxx	200W	9~40V	48V	4.17A	92.5%	300mVp-p
TE150-24S3V3xxx	150W	16~40V	3.3V	45.45A	91.0%	50mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE200-24S05xxx	200W	16~40V	5V	40A	92.0%	50mVp-p
TE200-24S06xxx	200W	16~40V	6V	33.33A	92.5%	50mVp-p
TE200-24S08xxx	200W	16~40V	8V	25A	92.5%	50mVp-p
TE200-24S09xxx	200W	16~40V	9V	22.2A	92.5%	50mVp-p
TE200-24S12xxx	200W	16~40V	12V	16.67A	93.5%	100mVp-p
TE200-24S15xxx	200W	16~40V	15V	13.33A	93.0%	100mVp-p
TE200-24S24xxx	200W	16~40V	24V	8.33A	93.0%	150mVp-p
TE200-24S28xxx	200W	16~40V	28V	7.14A	93.0%	150mVp-p
TE200-24S36xxx	200W	16~40V	36V	5.55A	93.0%	300mVp-p
TE200-24S48xxx	200W	16~40V	48V	4.17A	93.0%	300mVp-p

Technical drawing showing the Bottom View and First Angle Projection of a mechanical part.

Bottom View Dimensions:

- Overall Width: 60
- Overall Length: 50.8
- Left Side Features:
 - Feature 1: 4.88 from top, 4.6 from left.
 - Feature 2: 7.62 from top.
 - Feature 3: 7.62 from top.
- Right Side Features:
 - Feature 4: 3.81 from bottom.
 - Feature 5: 3.81 from bottom.
 - Feature 6: 3.81 from bottom.
 - Feature 7: 3.81 from bottom.
 - Feature 8: 3.81 from bottom.
- Right Edge Features:
 - Overall Width: 10.4
 - Feature Height: 3.8

First Angle Projection: Shows the top and front views of the part.

Pin	Symbol	Function
1	V _{in} -	Input voltage negative terminal
3	CNT	Enable control signal terminal
4	V _{in} +	Input voltage positive terminal
5	V _{out} +	Output voltage positive terminal
6	+ S	Remote sense positive input
7	TRIM	Output voltage trimming terminal
8	- S	Remote sense negative input

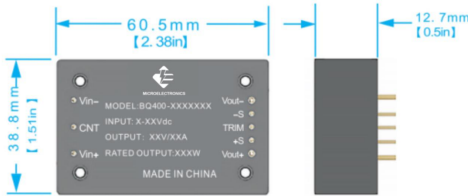
**TE400****Standard 1/4 Brick Low Voltage Wide Range Input DC-DC Isolated Regulated****Product Introduction**

TE400 series is a low voltage wide range (2:1/4:1) input, high reliability, high efficiency DC-DC isolated voltage regulated output module power supply. The appearance structure is a standard 1/4 brick fully sealed metal shell. This series of module power supplies adopts advanced modular process design, the interior is sealed with epoxy resin glue, the power semiconductor and magnetic devices are close to the metal shell for heat conduction, and the heat dissipation and insulation performance are good. It has input under-voltage protection, output over-voltage, over-current, short circuit protection, over-temperature protection and other functions.

- High efficiency
- 24/24W, low voltage wide range input
- Compact DC-DC Converter, "BRICK SIZE"
- Built-in remote ON/OFF
- High density
- Built-in over-current, over-voltage and thermal protection circuits



Product Features

PWM Mode:	Fixed switching frequency	
Enable Control:	Logic level	
Voltage Regulation Accuracy:	±1.0%	
Output Voltage Trim:	-20%~+10%*Vo	
Safety Protection Function:	Input under-voltage protection, output over-voltage protection, output over-current and short-circuit protection, over-temperature protection	
Isolation Voltage:	Input-Output: 2250Vdc; 100MΩ@500Vdc	
	Input-Enclosure: 1500Vdc; 100MΩ@500Vdc	
	Output-Enclosure: 750Vdc; 100MΩ@500Vdc	
Operating Case Temperature:	-40~+100°C (H-grade); -55~+105°C (M-grade)	
Storage Environment Temperature:	-55~+125°C (H-grade); -65~+125°C (M-grade)	
MTBF:	> 2 million hours	
Safety Performance:	UL/IEC/EN60950-1	
Environmental Performance:	Military-grade with lead, industrial-grade optional (default with lead)	



Naming Convention

400	-	X	S	X	X	X	X
Rated Output Power (W)		Input Voltage Range	Single Output	Output Voltage	Quality Grade(optional)	Package Type(optional)	Package Size(optional)
		24: Rated input 24V, Input Range 16~40V; 24W: Rated input 24V, Wide Range Input 9~40V;		3V3=3.3V 0x=xV xx=xxV	I: Industry (-40 °C~+85 °C) M: Military (-50°C~+125 °C) A: Aerospace(-55°C~+150°C) C: Commodity (0 °C~+70 °C) V: Automotive (-40°C~125C)	C: Metal Shell Threaded Holes T: Metal Shell Through Hole; K: Open Heatsink; B: Bare;	A: full brick B: 1/2 brick C:1/4 brick D:1/8 brick E:1/16 brick

**Product Selection**

Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE200-24WS3V3xxxx	200W	9~40V	3.3V	60.6A	91.0%	50mVp-p
TE300-24WS05xxxx	300W	9~40V	5V	60.0A	92.0%	80mVp-p
TE400-24WS12xxxx	400W	9~40V	12V	33.3A	93.5%	100mVp-p
TE400-24WS15xxxx	400W	9~40V	15V	26.7A	93.5%	150mVp-p
TE400-24WS24xxxx	400W	9~40V	24V	16.67A	93.5%	200mVp-p
TE400-24WS28xxxx	400W	9~40V	28V	14.28A	93.5%	200mVp-p
TE400-24WS36xxxx	400W	9~40V	36V	11.11A	93.0%	200mVp-p
TE400-24WS48xxxx	400W	9~40V	48V	8.33A	93.0%	200mVp-p
TE200-24S3V3xxxx	200W	16~40V	3.3V	60.6A	91.0%	50mVp-p
TE300-24S05xxxx	300W	16~40V	5V	60.0A	92.0%	80mVp-p
TE400-24S12xxxx	400W	16~40V	12V	33.3A	93.5%	100mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE400-24S15xxxx	400W	16~40V	15V	26.7A	93.5%	150mVp-p
TE400-24S24xxxx	400W	16~40V	24V	16.67A	93.5%	200mVp-p
TE400-24S28xxxx	400W	16~40V	28V	14.28A	93.5%	200mVp-p
TE400-24S36xxxx	400W	16~40V	36V	11.11A	93.0%	200mVp-p
TE400-24S48xxxx	400W	16~40V	48V	8.33A	93.0%	200mVp-p

Technical drawing showing the bottom view of a rectangular plate. The overall dimensions are 60.5 (width) by 38.8 (height). The plate features six $\phi 1.0$ holes arranged in two columns of three. The center-to-center distance between the two columns is 47.2. The distance from the left edge to the first column of holes is 6.65. The distance from the bottom edge to the first row of holes is 5.47. The distance between the first and second rows of holes is 7.62. The distance between the second and third rows of holes is 7.62. The distance from the top edge to the third row of holes is 26.16. The distance from the right edge to the first column of holes is 4.87. The distance from the right edge to the second column of holes is 11.79. The distance between the two columns of holes is 4.87. The plate has four mounting holes, each with a diameter of $\phi 3.2$ or 4-M3 Thru-thread (please specify when placing an order). The distance from the right edge to the first mounting hole is 12.7. The distance from the first mounting hole to the second mounting hole is 4.5. The plate is shown in First Angle Projection.

Pin	Symbol	Function
1	Vin -	Input voltage negative terminal
2	CNT	Remote control terminal
3	Vin +	Input voltage positive terminal
4	Vout +	Output voltage positive terminal
5	+ S	Remote sense positive input
6	TRIM	Output voltage trimming terminal
7	- S	Remote sense negative input
8	Vout -	Output voltage negative terminal

**TE350****1/4 Brick High Voltage Input DC-DC Isolated Regulated Output****Product Introduction**

TE350 series is a high voltage 2:1 input, high reliability, high efficiency DC-DC isolated voltage regulated output module power supply. The appearance structure is a 1/4 brick fully sealed metal shell. This series of module power supply adopts advanced modular process design, the interior is sealed with epoxy resin glue, the power semiconductor and magnetic devices are close to the metal shell for heat conduction, and the heat dissipation and insulation performance are good. It has input under-voltage protection, output over-voltage, over-current, short circuit protection, over-temperature protection and other functions.

- High efficiency
- Compact DC-DC Converter, "BRICK SIZE"
- High density
- High-voltage input
- Built-in remote ON/OFF
- Built-in over-current, over-voltage and thermal protection circuits



Product Features

PWM Mode:	Fixed switching frequency
Enable Control:	Logic level
Voltage Regulation Accuracy:	$\pm 1.0\%$
Output Voltage Trim:	$-20\% \sim +10\% \cdot V_o$
Safety Protection Function:	Input under-voltage protection, output over-voltage protection, output over-current and short-circuit protection, over-temperature protection
Isolation Voltage:	Input-Output: 2250Vdc; 100M Ω @500Vdc
	Input-Enclosure: 1500Vdc; 100M Ω @500Vdc
	Output-Enclosure: 750Vdc; 100M Ω @500Vdc
Operating Case Temperature:	-40 $\sim$ +100 $^{\circ}$ C (H-grade); -55 $\sim$ +105 $^{\circ}$ C (M-grade)
Storage Environment Temperature:	-55 $\sim$ +125 $^{\circ}$ C (H-grade); -65 $\sim$ +125 $^{\circ}$ C (M-grade)
MTBF:	> 2 million hours
Safety Performance:	UL/IEC/EN60950-1
Environmental Performance:	Military-grade with lead, industrial-grade optional (default with lead)





Naming Convention

350	-	X	S	X	X	X	X
Rated Output Power (W)		Input Voltage Range	Single Output	Output Voltage	Quality Grade(optional)	Package Type(optional)	Package Size(optional)
		270: Rated input 270V; Input range: 180-425V; 540: Rated input 540V, Input range: 380-700V;		0x=xV xx=xxV	I: Industry (-40 °C~+85 °C) M: Military (-50°C~+125 °C) A: Aerospace(-55°C~+150°C) C: Commodity (0 °C~+70 °C) V: Automotive (-40°C~125C)	C: Metal Shell Threaded Holes T: Metal Shell Through Hole; K: Open Heatsink; B: Bare;	A: full brick B: 1/2 brick C:1/4 brick D:1/8 brick E:1/16 brick

**Product Selection**

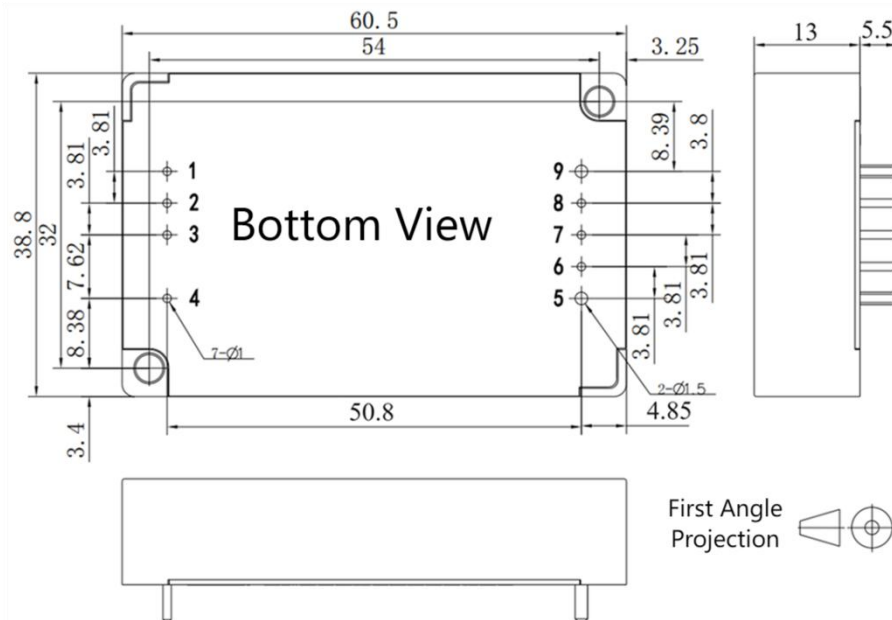
Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE300-270S05V _{xxx}	300W	180-425V	5V	60.0A	92.0%	100mVp-p
TE300-270S06V _{xxx}	300W	180-425V	6V	50.0A	92.0%	100mVp-p
TE350-270S09V _{xxx}	350W	180-425V	9V	38.89A	92.0%	100mVp-p
TE350-270S12V _{xxx}	350W	180-425V	12V	29.17A	92.0%	150mVp-p
TE350-270S15V _{xxx}	350W	180-425V	15V	23.33A	92.0%	200mVp-p
TE300-270S24V _{xxx}	300W	180-425V	24V	12.5A	92.0%	200mVp-p
TE350-270S28V _{xxx}	350W	180-425V	28V	12.5A	92.5%	200mVp-p
TE350-270S36V _{xxx}	350W	180-425V	36V	9.72A	92.5%	250mVp-p
TE350-270S48V _{xxx}	350W	180-425V	48V	7.29A	92.5%	250mVp-p
TE300-540S05V _{xxx}	300W	360-700V	5V	60.0A	92.0%	100mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE300-540S06V _{xxx}	300W	360-700V	6V	50.0A	92.0%	100mVp-p
TE350-540S09V _{xxx}	350W	360-700V	9V	38.89A	92.5%	100mVp-p
TE350-540S12V _{xxx}	350W	360-700V	12V	29.17A	93.0%	150mVp-p
TE350-540S15V _{xxx}	350W	360-700V	15V	23.33A	93.0%	200mVp-p
TE350-540S24V _{xxx}	350W	360-700V	24V	14.58A	93.0%	200mVp-p
TE350-540S28V _{xxx}	350W	360-700V	28V	12.5A	93.0%	200mVp-p
TE350-540S36V _{xxx}	350W	360-700V	36V	9.72A	93.0%	250mVp-p
TE350-540S48V _{xxx}	350W	360-700V	48V	7.29A	93.0%	250mVp-p



Module Package Dimensions



Pin	Symbol	Function
1	Vin -	Input voltage negative terminal
3	CNT	Remote control terminal
4	Vin +	Input voltage positive terminal
5	Vout +	Output voltage positive terminal
6	+ S	Remote sense positive input
7	TRIM	Output voltage trimming terminal
8	- S	Remote sense negative input
9	Vout -	Output voltage negative terminal

**TE1000****Standard 1/2 Brick High Voltage Input DC-DC Isolated Regulated Output****Product Introduction**

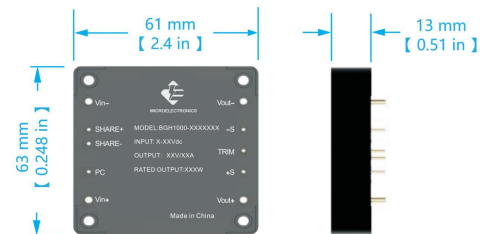
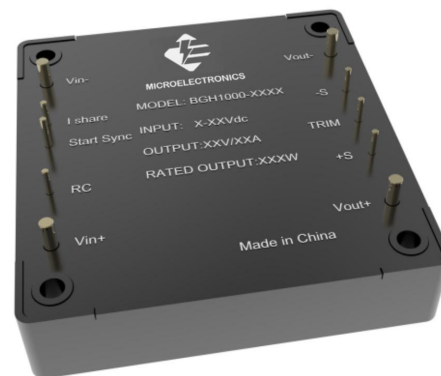
TE1000 series is a high voltage 2:1 input, high reliability, high efficiency DC-DC isolated voltage regulated output module power supply. The appearance structure is a standard 1/2 brick fully sealed metal shell. This series of module power supply adopts advanced modular process design, the interior is sealed with epoxy resin glue, the power semiconductor and magnetic devices are close to the metal shell for heat conduction, and the heat dissipation and insulation performance are good. It has input under-voltage protection, output over-voltage, over-current, short circuit protection, over-temperature protection and other functions.

- High efficiency
- High-voltage input
- Compact DC-DC Converter, "BRICK SIZE"
- Built-in remote ON/OFF
- High density
- Built-in over-current, over-voltage and thermal protection circuits



Product Features

PWM Mode:	Fixed switching frequency
Enable Control:	Logic level
Voltage Regulation Accuracy:	±1.0%
Output Voltage Trim:	-20%~+10%*V _o
Safety Protection Function:	Input under-voltage protection, output over-voltage protection, output over-current and short-circuit protection, over-temperature protection
Isolation Voltage:	Input-Output: 2250Vdc; 100MΩ@500Vdc
	Input-Enclosure: 2250Vdc; 100MΩ@500Vdc
	Output-Enclosure: 750Vdc; 100MΩ@500Vdc
Operating Case Temperature:	-40~+100°C(H-grade); -55~+105°C(M-grade)
Storage Environment Temperature:	-55~+125°C(H-grade); -65~+125°C(M-grade)
MTBF:	> 2 million hours
Safety Performance:	UL/IEC/EN60950-1
Environmental Performance:	Military-grade with lead, industrial-grade optional (default with lead)





Naming Convention

1000	-	X	S	X	X	X	X
Rated Output Power (W)		Input Voltage Range	Single Output	Output Voltage	Quality Grade(optional)	Package Type(optional)	Package Size(optional)
		270: Rated input: 270V, Wide Range Input: 180~425V; 540: Rated input: 540V, Wide Range Input: 380~700V;		0x=xV xx=xxV	I: Industry (-40 °C~+85 °C) M: Military (-50°C~+125 °C) A: Aerospace(-55°C~+150°C) C: Commodity (0 °C~+70 °C) V: Automotive (-40°C~125C)	C: Metal Shell Threaded Holes T: Metal Shell Through Hole; K: Open Heatsink; B: Bare;	A: full brick B: 1/2 brick C: 1/4 brick D: 1/8 brick E: 1/16 brick

**Product Selection**

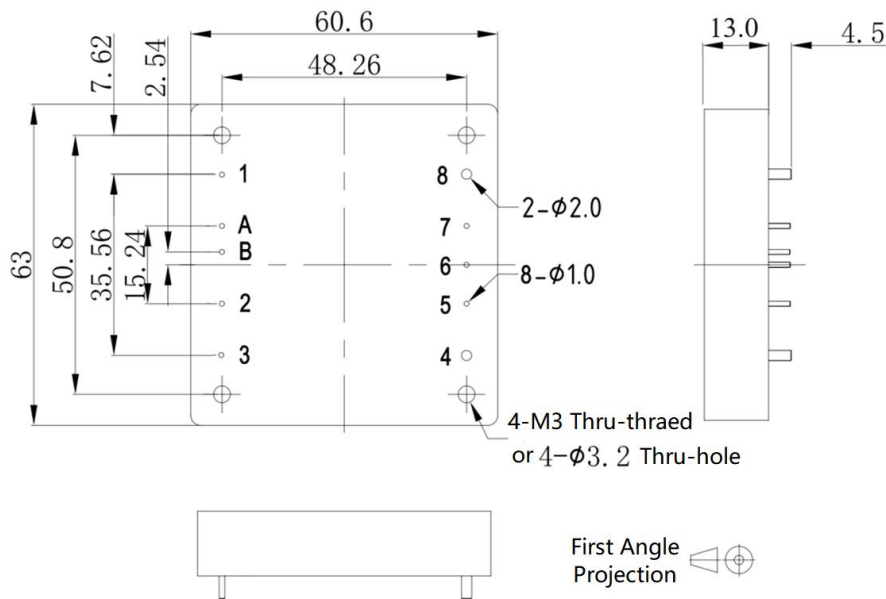
Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE500-270S05xxx	500W	180~425V	5V	100.0A	94.0%	80mVp-p
TE800-270S12xxx	800W	180~425V	12V	66.67A	94.5%	100mVp-p
TE800-270S15xxx	800W	180~425V	15V	53.3A	94.5%	100mVp-p
TE800-270S24xxx	800W	180~425V	24V	33.3A	94.5%	200mVp-p
TE800-270S28xxx	800W	180~425V	28V	28.6A	95.0%	200mVp-p
TE800-270S36xxx	800W	180~425V	36V	22.2A	95.0%	250mVp-p
TE800-270S48xxx	800W	180~425V	48V	16.67A	95.0%	300mVp-p
TE800-540S12xxx	800W	360~700V	12V	66.67A	94.5%	100mVp-p
TE800-540S15xxx	800W	360~700V	15V	53.3A	94.5%	150mVp-p
TE800-540S24xxx	800W	360~700V	24V	33.3A	94.5%	200mVp-p
TE800-540S28xxx	800W	360~700V	28V	28.6A	95.0%	200mVp-p
TE800-540S36xxx	800W	360~700V	36V	22.2A	95.0%	250mVp-p
TE800-540S48xxx	800W	360~700V	48V	16.67A	95.0%	300mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE1000-270S12xxx	1000W	180~425V	12V	83.33A	94.5%	100mVp-p
TE1000-270S15xxx	1000W	180~425V	15V	66.67A	94.5%	100mVp-p
TE1000-270S24xxx	1000W	180~425V	24V	41.67A	94.5%	200mVp-p
TE1000-270S28xxx	1000W	180~425V	28V	35.71A	95.0%	200mVp-p
TE1000-270S36xxx	1000W	180~425V	36V	27.78A	95.0%	250mVp-p
TE1000-270S48xxx	1000W	180~425V	48V	20.83A	95.0%	300mVp-p
TE1000-540S12xxx	1000W	360~700V	12V	83.33A	94.5%	100mVp-p
TE1000-540S15xxx	1000W	360~700V	15V	66.67A	94.5%	150mVp-p
TE1000-540S24xxx	1000W	360~700V	24V	41.67A	94.5%	200mVp-p
TE1000-540S28xxx	1000W	360~700V	28V	35.71A	95.0%	200mVp-p
TE1000-540S36xxx	1000W	360~700V	36V	27.78A	95.0%	250mVp-p
TE1000-540S48xxx	1000W	360~700V	48V	20.83A	95.0%	300mVp-p



Module Package Dimensions



Pin	Symbol	Function
1	Vin-	Input voltage negative terminal
A	I SHARE	Current sharing terminal
B	SYNC	Synchronization start signal terminal
2	CNT	Remote control terminal
3	Vin+	Input voltage positive terminal
4	Vout+	Output voltage positive terminal
5	+S	Remote sense positive input
6	TRIM	Output voltage trimming terminal
7	-S	Remote sense negative input
8	Vout-	Output voltage negative terminal



TE2000 Series

Full Brick High Voltage Input DC-DC Isolated Regulated Output

Product Introduction

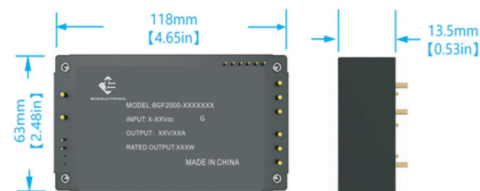
The TE2000 series is a high voltage (2:1) input, high reliability, high efficiency DC-DC isolated regulated output module power supply. The shaped structure is a fully sealed aluminum substrate full brick. This series of module power supplies adopts advanced modular process design, with internal components sealed with epoxy resin glue, power semiconductors and magnetic devices adhered to the aluminum substrate for efficient heat dissipation and excellent insulation performance. It features input over/under-voltage protection, output over-voltage, over-current, short circuit protection, and

- High efficiency
- High-voltage input
- Compact DC-DC Converter, "BRICK SIZE"
- Built-in remote ON/OFF
- High density
- Built-in over-current, over-voltage and thermal protection circuits



Product Features

PWM Mode:	Fixed switching frequency
Enable Control:	Logic level
Voltage Regulation Accuracy:	$\pm 1.0\%$
Output Voltage Trim:	$-20\% \sim +10\% \cdot V_o$
Safety Protection Function:	Input under-voltage protection, output over-voltage protection, output over-current and short-circuit protection, over-temperature protection
Isolation Voltage:	Input-Output: 4250Vdc; 100M Ω @500Vdc
	Input-substrate: 3000Vdc; 100M Ω @500Vdc
	Output-substrate: 750Vdc; 100M Ω @500Vdc
Operating Case Temperature:	-40 $\sim$ +100 $^{\circ}$ C(H-grade); -55 $\sim$ +105 $^{\circ}$ C(M-grade)
Storage Environment Temperature:	-55 $\sim$ +125 $^{\circ}$ C(H-grade); -65 $\sim$ +125 $^{\circ}$ C(M-grade)
MTBF:	> 2 million hours
Safety Performance:	UL/IEC/EN60950-1
Environmental Performance:	Military-grade with lead, industrial-grade optional (default with lead)





Naming Convention

2000	-	X	S	X	X	X	X
Rated Output Power (W)		Input Voltage Range	Single Output	Output Voltage	Quality Grade(optional)	Package Type(optional)	Package Size(optional)
		270; Rated input; 270V, Wide range; 180~425V; 540; Rated input; 540V, Wide range; 380~850V;		0x=xV xx=xxV	I: Industry (-40 °C~+85 °C) M: Military (-50°C~+125 °C) A: Aerospace(-55°C~+150°C) C: Commodity (0 °C~+70 °C) V: Automotive (-40°C~125C)	C: Metal Shell Threaded Holes T: Metal Shell Through Hole; K: Open Heatsink; B: Bare;	A: full brick B: 1/2 brick C:1/4 brick D:1/8 brick E:1/16 brick

**Product Selection**

Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE1200-270S12xxx	1200W	180-425V	12V	100.0A	94.5%	120mVp-p
TE1200-270S15xxx	1200W	180-425V	15V	80.0A	94.5%	120mVp-p
TE1200-270S24xxx	1200W	180-425V	24V	50.0A	95.0%	200mVp-p
TE1200-270S28xxx	1200W	180-425V	28V	42.9A	95.5%	200mVp-p
TE1200-270S36xxx	1200W	180-425V	36V	33.33A	95.5%	250mVp-p
TE1200-270S48xxx	1200W	180-425V	48V	25.0A	96.0%	300mVp-p
TE1500-270S15xxx	1500W	180-425V	15V	100.0A	94.5%	150mVp-p
TE1500-270S24xxx	1500W	180-425V	24V	62.5A	95.0%	200mVp-p
TE1500-270S28xxx	1500W	180-425V	28V	53.57A	95.5%	200mVp-p
TE1500-270S36xxx	1500W	180-425V	36V	41.67A	95.5%	250mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE1500-270S48xxx	1500W	180-425V	48V	31.25A	96.0%	300mVp-p
TE2000-270S24xxx	2000W	180-425V	24V	83.33A	95.0%	200mVp-p
TE2000-270S28xxx	2000W	180-425V	28V	71.4A	95.5%	200mVp-p
TE2000-270S36xxx	2000W	180-425V	36V	55.55A	95.5%	250mVp-p
TE2000-270S48xxx	2000W	180-425V	48V	41.67A	96.0%	300mVp-p
TE1200-540S12xxx	1200W	380-850V	12V	100.0A	94.5%	120mVp-p
TE1200-540S15xxx	1200W	380-850V	15V	80.0A	94.5%	120mVp-p
TE1200-540S24xxx	1200W	380-850V	24V	50.0A	95.0%	200mVP-P
TE1200-540S28xxx	1200W	380-850V	28V	42.9A	95.5%	200mVp-p
TE1200-540S36xxx	1200W	380-850V	36V	33.33A	95.5%	250mVp-p
TE1200-540S48xxx	1200W	380-850V	48V	25.07A	96.0%	300mVp-p

Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE1200-540S60xxx	1200W	380-850V	60V	20.0A	96.0%	300mVp-p
TE1500-540S15xxx	1500W	380-850V	15V	100.0A	94.5%	150mVp-p
TE1500-540S24xxx	1500W	380-850V	24V	62.5A	95.0%	200mVp-p
TE1500-540S28xxx	1500W	380-850V	28V	53.57A	95.5%	200mVP-P
TE1500-540S36xxx	1500W	380-850V	36V	41.67A	95.5%	250mVP-P
TE1500-540S48xxx	1500W	380-850V	48V	31.25A	96.0%	300mVp-p
TE1500-540S60xxx	1500W	380-850V	60V	25.0A	96.0%	300mVp-p
TE2000-540S24xxx	2000W	380-850V	24V	83.33A	95.0%	200mVp-p
TE2000-540S28xxx	2000W	380-850V	28V	71.4A	95.5%	200mVP-P
TE2000-540S36xxx	2000W	380-850V	36V	55.55A	95.5%	250mVP-P
TE2000-540S48xxx	2000W	380-850V	48V	41.67A	96.0%	250mVp-p



Product Model	Rated Output Power	Input Voltage Range	Rated Output Voltage	Output Current	Efficiency	Ripple Noise
TE2000-540S60xxx	2000W	380-850V	60V	33.33A	96.0%	300mVp-p
TE2000-540S72xxx	2000W	380-850V	72V	27.78A	96.0%	300mVp-p