

Bidirectional Power Module Specification

TPS-DM570T1512KI(R)F





Features

- Bidirectional isolation and energy flow
- Mature and excellent soft switching technology, more reliable and efficient
- High efficiency in both directions, saving energy consumption expenses for customers
- Excellent EMC, meeting EN55032 and other international standards
- Perfect fault protection function
- Comply with UL, CE, CCC and other standards

Applications

- Cell formation and test equipment
- Energy recyclable power aging equipment

Profile

TPS-DM570T15V DC-DC BPM

TPS-DM570T15V DC-DC BPM, Connected to high and low voltage DC bus, Energy can flow autonomously bidirectional, It can be applied to lithium formation and test, bidirectional testing, energy storage and other application scenarios. The mature soft switching technology is also adopted, Built-in high frequency isolation transformer, The module provides high performances such as high reliability, strong adaptability of grids and environments, high power density.

Specification

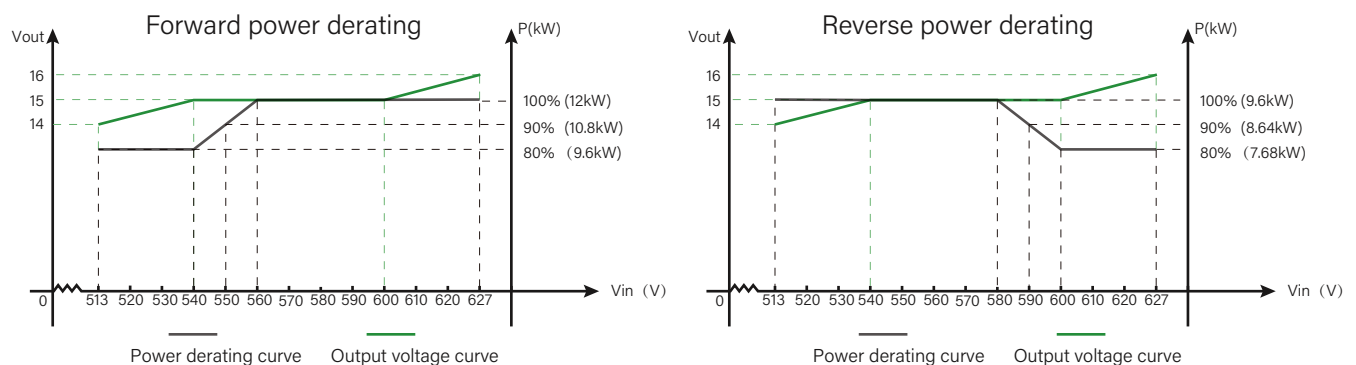
Product Model			TPS-DM570T1412KI(R)F
DC-DC Positive Direction	Rated Output Capacity		12000W
	HV Input	Rated Voltage	570VDC
		Voltage Range	560~627VDC, full load; 513-560VDC, derating to 80%
		Input Current	≤24A
	LV Output	Rated Voltage ^①	14-16VDC
		Rated Current	800A
		Voltage Accuracy	±1%
		Ripple Voltage	500mV
		Peak Efficiency	94.5%@570VDC

DC-DC Opposite Direction	Rated Input Capacity		9600W
	LV Input	Rated Voltage ^③	14-16VDC
		Rated Current	640A
	HV Output	Voltage Range	513~580VDC, full load; 580~627VDC, derating to 80%
		Peak Efficiency	94.5%@570VDC
Complete Machine	System	Power Direction	Bidirectional
		Isolation Mode	High frequency isolation
		Cooling System	Forced air cooling, intelligent control
		Air Flow	Default: Front inlet and rear outlet, R type: Rear inlet and front outlet (front: fan; rear: terminal)
		Expandability	4
	Environment	Operation Temperature ^②	-10°C~30°C full load, 30°C~60°C power derating to 90%
		Storage Temperature	-40°C~70°C
		Relative Humidity	5~95%(no condensing)
		Operation Altitude	<1000m; 1000m~3000m, power derating 1% per 100m rising
	Interface	Indicator Lamp	Operation: Blue Fault: Red
		Communication	CAN
	Mechanical	Size (W*H*D)	300mm*220mm*86mm
		Weight	≤5.5kg

①The low voltage output side voltage exceeding 25VDC will cause power failure, and the specific value of output voltage corresponding to different input voltages is shown in the derated curve

②Shut down due to over temperature after overload

③Load rate VS LV side output voltage



This electronic device must not be disposed of in the household waste at the end of its service life. For your return, there are free collection points for electrical appliances and, if necessary, additional points of acceptance for the reuse of the devices in your area. The addresses can be obtained from your city or communal administration. If the old electrical or electronic device contains personal data, you are responsible for deleting it before you return it. Further information: www.elektrogesetz.de

● TPS-DM570T1512KI(R)F Installation Structure



- Warning

Serial number	Type	Name	Specification	Quantity	Tightening torque
②	Output terminal fastening screws	GB907413-88 series cross slot hexagon head spring flat washer combination screws	M6X12	16pcs	2N·M
①	Input terminal fastening screw	Cross recessed pan head flat washer combination screw	M4X8.5	2pcs	1.5N·M

 www.tps-elektronik.com
 +92161495260
  office@tps-elektronik.com