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Description

IGBT & IPM Universal Drive Power Module JS159

Overview :

The driving power of the inverter is the heart of the whole system, providing stable, reliable, pure and sufficient power for the system to work. If it cannot work reliably, it may directly damage important components and affect the stability of peripheral circuits .

JS159 is an embedded system-level flyback switching power supply specially designed for inverter devices and uses IPM and IGBT . It has the advantages of independent 8- way output, strong output current, wide input voltage range, and full protection, and is suitable for the power supply of all inverter drives.

JS159-15 is suitable for IPM power drive, and the high frequency transformer is surrounded by yellow ;

JS159-24 is suitable for IGBT power drive, and the high frequency transformer is surrounded by blue;

- The insulation process on the back of **the PCB prevents short circuit and electric shock.**
- **5V for self-recovery overload protection. All other outputs have short-circuit protection function, allowing users to directly short-circuit test.**
- **5V, $\pm 15V$ use polymer high frequency, low ESR solid capacitors.**

JS159-15 switching power supply performance indicators:

Input DC: 170-700V ;

Rated power: 60W ;

Rated output current:

5V : 1A; (common ground with $\pm 15V$)

24V : 2A ; $\pm 15V$: 200mA per channel ; (when the 5V current is adjusted to 1A)

15V \times 3 : 150mA for each channel (for each channel of the upper three bridges) (when the 5V current is adjusted to 1A)

15V \times 1 : 300mA (shared by the lower three bridges) (when the 5V current is adjusted to 1A)

Input DC voltage sampling: roughly 198:1 relationship with input DC voltage , 100mA; (shared ground with $\pm 15V$)

JS159-15 technical parameters (maximum absolute value):

Pin spacing is standard 2.54mm

JS159-24 switching power supply performance indicators:

Input DC: 170-700V ;

Rated power: 60W ;

Rated output current:

5V : 1A; (common ground with $\pm 15V$)

24V : 2A ; $\pm 15V$: 200mA per channel ; (when the 5V current is adjusted to 1A)

24V \times 3 : 150mA for each channel (for each channel of the upper three bridges) (when the 5V current is adjusted to 1A)

24V \times 1 : 300mA (shared by the lower three bridges) (when the 5V current is adjusted to 1A)

DC bus voltage sampling: roughly 198:1 relationship with the bus , 100mA ; (shared ground with $\pm 15V$)

JS159-24 technical parameters (maximum absolute value):

Pin description:

1) Bottom left: output power supply: the symbol is expressed as ("G" : means " ground ")

V1+ , V1G : 24V (the three bridges under the IPM share the drive power supply, please add a 100uF filter capacitor and a 100nF decoupling capacitor to the IPM terminal)

V2+ , V2G : 24V (Independent drive power supply 2 for the IPM upper bridge , please add a 100uF filter capacitor and a 100nF decoupling capacitor to the IPM terminal)

V3+ , V3G : 24V (IPM upper bridge independent drive power supply 3 , please add 100uF filter capacitor and 100nF decoupling capacitor to IPM terminal)

V4+ , V4G : 24V (IPM upper bridge independent drive power supply 4 , please add 100uF filter capacitor and 100nF decoupling capacitor to IPM terminal)

2) Upper left: Input power supply: P indicates the positive pole of the input DC power supply, N indicates the ground of the input DC power supply, and the range is DC 170-700V.

3) Right: output power supply : the symbols are expressed as: (from bottom to top)

+5V : usually output to single-chip or DSP , please add 100uF filter capacitor and 100nF decoupling capacitor at the entrance of the control board .

GND : +5V ground, common ground with $\pm 15V$, common ground with control board power supply.

15G : $\pm 15V$ ground, common ground with 5V .

+15 : +15V , output to operational amplifier circuits, current sensors, Hall encoders, etc., in order to avoid glitches, corresponding filtering and decoupling are required.

-15 : -15V , ditto.

VDC : DC bus sampling, generally a linear relationship with the bus 198:1 , for example, 300V bus, VDC is about 1.515V , self-test shall prevail. This voltage is for judging bus overvoltage or undervoltage, it is not recommended to use this parameter as a variable to participate in real-time calculation. This voltage is common ground with $\pm 15V$ and 5V . Usually: the output to the operational amplifier circuit is shaped and then entered into the A/D sampling of the DSP/MCU .

Empty: no answer

24G : 24V ground.

+24 : +24V , the output current is up to 2A (when the 5V current is adjusted to 1A) , it can be used as a relay or fan power supply,

Precautions:

1) Before turning on the power, please check whether the components are damaged, and avoid accidents such as short circuits caused by other reasons.

2) Please confirm whether the input voltage is DC and whether the voltage is within the allowable DC range. After the power is correct , the luminescent LED light is lit to stand by at any time.

3) In order to reduce or avoid glitch interference, each output voltage needs to add decoupling and filter circuits at the target load , such as π -type filter. Recommended parameters: decoupling 100nF, filter 100uF, series inductor 10nH .

4) After the power is turned on, use a multimeter to measure each power supply. After the V1-V4 voltage is connected to the load (IPM), the voltage error cannot exceed ±1.5V .

5) The user is allowed to do short-circuit test for voltages other than 5v , and the light-emitting diode flashes when short-circuited.

6) Users who need to add resistance virtual load test please note: the power supply is 5V feedback regulator, and resistance must be added to 5V to balance other voltages. Simply adding other than 5V will cause voltage drop in the output (this is caused by the characteristics of switching power supply , is a normal phenomenon). The maximum output current of multi-channel voltage mentioned in this manual refers to the case where 5V is 1A .

7) Since the power supply is based on 5V , it is more accurate and stable than other output voltages. It is recommended that users use this output as much as possible to keep all output voltages stable. If you don't use 5V output, please connect a 100-5 ohm /1W resistor dummy load in parallel.

Typical parameters of JS159-24 ripple and noise superposition test, AC coupling, average sampling, digital filter off, 50M bandwidth: (double-sided superposition, unit: mV)

 playstation 5

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Characteristics

Brand Name	TONIFISHI
Model Number	JS159-24
Origin	Mainland China
Type	Logic ICs
Condition	New
Measurement unit	piece/pieces
Each pack	1



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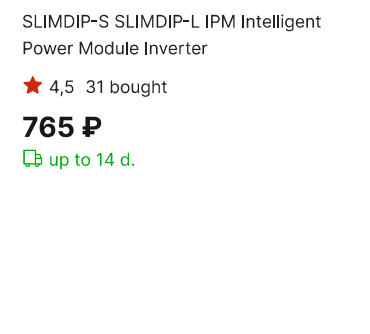
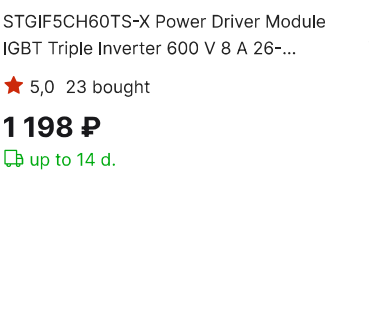
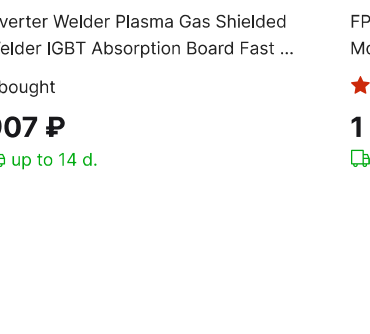
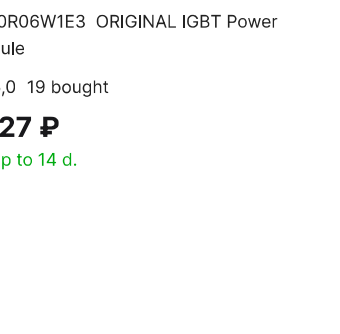
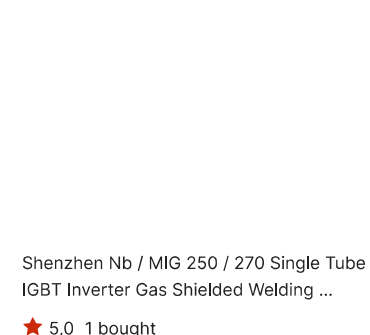
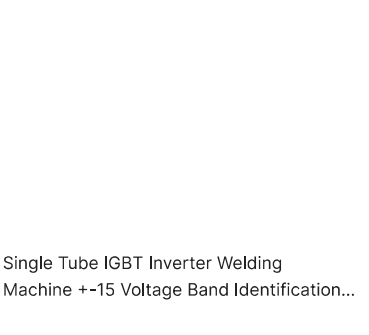
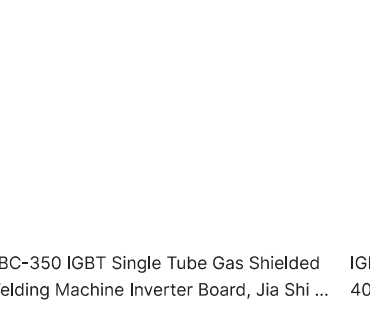
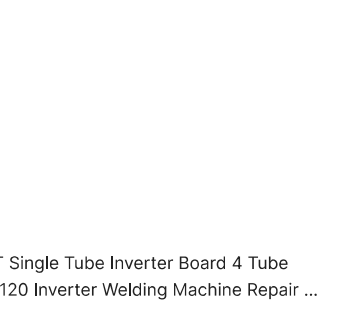
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