

PART 1. Introduction

DC/DC converter is a voltage converter which can effectively output fixed voltage after converting input voltage. DC/DC converters are divided into three categories: boost DC/DC converters, boost DC/DC converters and boost DC/DC converters.

Three kinds of control can be adopted according to the demand. PWM control type has high efficiency and good output voltage ripple and noise. PFM control type has the advantage of low power consumption even if it is used for a long time, especially under small load.

PFM control is implemented when PWM/PFM converts to small load, and it is automatically converted to PWM control when heavy load occurs. At present, DC-DC converters are widely used in mobile phones, MP3, digital cameras, portable media players and other products. It belongs to chopper circuit in the classification of circuit types.

PART2. Features

1	Design meeting RoHS / CE
2	High efficiency: 93%
3	Non-isolated between input and output
4	Internal capacitor: NCC & NICHICON (high reliability)
5	100% full load burn-in test
6	Over load, Over temperature and Over voltage protections(Different models have different protection functions)
7	Waterproof level IP67
8	24 months warranty

PART 3. Model definition

JTD-DTDXXSYZZZ , For example : JTD-DTD12S2460

JTD	JIETONG Brand	DTD	DC TO DC
XXX	Max input Voltage	YYY	Max output Voltage
ZZZ	Max output Current		

PART 4. Customized Range

Type	Model/Series	Input to output	Output Current (Be option)
DC-DC Boost Converter	JTD-DTD5~11S12**	5~11v to 12v	1/2/3/4/5/8/10A
	JTD-DTD12S15**	12V to 15V	1/2/3/4/5/8/10/12/15A
	JTD-DTD12S19**	12V to 19V	1/2/3/4/5/8/10/12/15/20A
	JTD-DTD12S24**	12V to 24V	1/2/3/4/5/8/10/12/15/20/25/30/40/50A
	JTD-DTD12S28**	12V to 28V	3/5/8/10/15/20/30/40A
	JTD-DTD12S36**	12V to 36V	1/1.5/2/3/5/6/10/20/30/40A
	JTD-DTD12S48**	12V to 48V	1/1.5/2/3/5/6/8/10/15/20A
	JTD-DTD12S56**	12V to 56V	3/5/6A
	JTD-DTD24S36**	24V to 36V	2/3/5/8A
	JTD-DTD24S48**	24V to 48V	2/3/5/6/10/15/20/30/40A
	JTD-DTD12S5**	12V to 5V	1/2/3A
	JTD-DTD1224S5**	12/24V to 5V	1/2/3/4/5/6/8/10/15/20/30/40/50/60

DC-DC Buck Converter			A
	JTD-DTD1224S6**	12/24V to 5V	10/15/20/25/40A
	JTD-DTD24S12**	24V to 12V	1/1.5/2/3/4/5/6/8/10/12/15/18/20/22/25/28/30/40/50/60/85/100A
	JTD-DTD24S13.8**	24V to 13.8V	5/10/15/20/30/40/50/60A
	JTD-DTD24S15**	24V to 15V	5/8/10/15/20/25A
	JTD-DTD24S19**	24V to 19V	5/6/8/10/15/20/25A
	JTD-DTD36S12**	36V to 12V	5/10/15/20/30/50/60A
	JTD-DTD48S5**	48V to 5V	5/6/8/10/15/20A
	JTD-DTD48S12**	48V to 12V	1/2/3/5/6/8/10/15/20/25/30/50/60A
	JTD-DTD48S13.8**	48V to 13.8V	5/10/15/20/30/50/60A
	JTD-DTD48S19**	48V to 19V	5/8/10A
	JTD-DTD48S24**	48V to 24V	1/1.5/2/3/5/6/8/10/15/20/30/40/50A
	JTD-DTD48S36**	48V to 36V	10A
	JTD-DTD60S5**	60V to 5V	8/10/15/20A
	JTD-DTD60S12**	60V to 12V	5/8/10/15A
JTD-DTD60S13.8**	60V to 13.8V	15A	
JTD-DTD60S24**	60V to 24V	3/5/8/10/15A	
Boost & Buck Converter	JTD-DTD8~40S12*	8~40V to 12V	1/2/3/6/10/15/20/25A
	JTD-DTD8~40S13.8*	8~40V to 13.8V	3/5/10/15/20A
	JTD-DTD9~36S19*	9~36V to 19V	5/10A
	JTD-DTD9~40S24*	9~40V to 24V	2/3/4/6/10A
AC to DC Converter	JTD-ATD12S12	12Vac to 12Vdc	1/2/3/4/5/8/10A
	JTD-ATD24S12	24Vac to 12Vdc	1/2/3/4/5/8/10A
	JTD-ATD24S5	24Vac to 5Vdc	1/2/3/4/5/8/10A
	JTD-ATD24S24	24Vac to 24Vdc	1/1.5/2/5/6A
	JTD-ATD36S5	36Vac to 5Vdc	1/2/3A
	JTD-ATD36S12	36Vac to 12Vdc	1/2/3A
	JTD-ATD36S24	36Vac to 24Vdc	1/2A

Part 5: Application

- 1.Trucks; 2.Forklifts;
- 3.Buses;
- 4.Logging Vehicles;
- 5.Electromotor;
- 6.Telecommunications;
- 7.Boat & Yacht;
- 8.LED Marketplaces etc....

Part 6: Technical Parameter

Brand	JIETONG
Type	NON-Isolated
Model	JTD -DTD48S1220
DC voltage INPUT	
Voltage rate	48VDC
Voltage range	30-60VDC
DC voltage & Current output	
Voltage rate	12VDC
Current	20A
Rate Power	240W
Size	74*74*32MM
NW	300G
Others	
Customize	Allow
Battery charging	No
Material of shell	Aluminum shell
Working temp	-20~80°C
Efficiency	93%
Waterproof Level	IP67
Protection function	Over current, under voltage, short circuit, and over temperature protection
Note: All specifications are subject to change without prior notice!	

Part 7 : Reference Pictures
