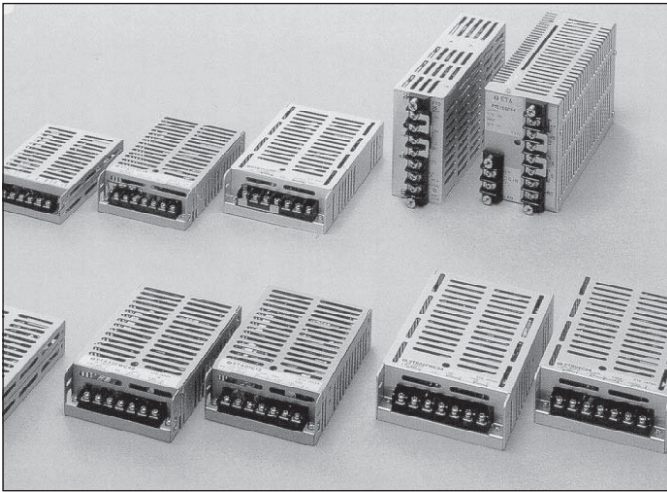


# VT SERIES

DC/DC Single & Multi Output: 15 - 150 Watts



## Features

- Wide range of DC input options
- 12V, 24V, 48V and 110 VDC
- Filtered to meet EN55022 EMI
- Fully isolated input - output
- Vented case with screw terminal connections
- Overload protection
- Overvoltage protection
- MTBF 100,000 hours
- Inrush current limiting
- Convection cooled - no fans
- Suitable for a wide range of industrial and telecom applications
- N+1 redundancy options
- Single, dual and triple output models

## Specifications

<b>INPUT :</b>	12 VDC (9.2~16V) 24 VDC (19~32V) 48 VDC (38~63V) 110VDC (85~140V)
<b>INRUSH CURRENT:</b>	Model dependent, typically 20A
<b>EFFICIENCY:</b>	Model dependent 70-89%
<b>ISOLATION:</b>	12V, 24V, 48V input: Input - output/case 1500 VAC 110 input: Input - output/case 2000 AC Output - case: 500 AC
<b>OUTPUT VOLTAGE:</b>	5~48V models, refer to table
<b>POWER:</b>	15~150 watts
<b>VOLTAGE ADJUSTMENT:</b>	Single output models: $\pm 10\%$ Multi output models: $\pm 5\%$ on V1
<b>LINE REGULATION:</b>	$\pm 0.8\%$ over input range
<b>LOAD REGULATION:</b>	$\pm 1.0\%$ over 0~100% load
<b>REMOTE SENSE:</b>	VTE models only
<b>REMOTE CONTROL:</b>	VTE models only: output normal open. Shutdown by short to ground.
<b>PARALLEL OPERATION:</b>	Possible on some models, consult office
<b>HOLD UP TIME:</b>	Model dependent 6-8ms
<b>RIPPLE &amp; NOISE:</b>	Typically 1% pk - pk of nominal V out DC - 100 MHz
<b>TEMP. CO-EFFICIENT:</b>	0.03% per °C over 0° to 50°C
<b>OVERLOAD PROTECTION:</b>	Fold back - VTM Current limiting - VTA - VTE models (adjustable on VTE)
<b>OVP:</b>	OVP clamp on VTM Output shutdown VTA - VTE models Input must be switched off for minimum 30 sec to reactivate
<b>OPERATING. TEMP:</b>	0° to 50°C at rated power. Derate 2.5% per °C from 50° to 60°C
<b>HUMIDITY:</b>	85% RH
<b>VIBRATION &amp; SHOCK:</b>	Shock 30G. Vibration 5~10Hz 10mm 2G
<b>COOLING:</b>	Convection cooled
<b>CONNECTIONS:</b>	Screw terminal block
<b>DIMENSIONS &amp; WEIGHT:</b>	VTM: 118 x 80 x 25mm 250g VTA: 135 x 85 x 31mm 350g VTB: 160 x 96 x 33mm 410g VTD: 206 x 97 x 48mm 800g VTE: 217 x 97 x 70mm 1400g

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Input V	Output/Model					Power W
<b>Single Output</b>						
12V 24V 48V 110V	<b>5V 3A</b> VTM - 05SC12 VTM - 05SC24 VTM - 05SC48 VTM - 05SD	<b>12V 1.2A</b> VTM - 12SC12 VTM - 12SC24 VTM - 12SC48 VTM - 12SD	<b>15V 1A</b> VTM - 15SC12 VTM - 15SC24 VTM - 15SC48 VTM - 15SD	<b>24V 0.62A</b> VTM - 24SC12 VTM - 24SC24 VTM - 24SC48 VTM - 24SD		15W 15W 15W 15W
12V 24V 48V 110V	<b>5V 5A</b> VTA - 05SC12 VTA - 05SC24 VTA - 05SC48 VTA - 05SD	<b>12V 2.1A</b> VTA - 12SC12 VTA - 12SC24 VTA - 12SC48 VTA - 12SD	<b>15V 1.7A</b> VTA - 15SC12 VTA - 15SC24 VTA - 15SC48 VTA - 15SD	<b>24V 1.1A</b> VTA - 24SC12 VTA - 24SC24 VTA - 24SC48 VTA - 24SD	<b>48V 0.5A</b> VTA - 48SC12 VTA - 48SC24 VTA - 48SC48 VTA - 48SD	25W 25W 25W 25W
12V 24V 48V 110V	<b>5V 10A (8A)</b> (VTB - 05SC12) VTB - 05SC24 VTB - 05SC48 VTB - 05SD	<b>12V 4.4A (3.3A)</b> (VTB - 12SC12) VTB - 12SC24 VTB - 12SC48 VTB - 12SD	<b>15V 3.4A (2.7A)</b> (VTB - 15SC12) VTB - 15SC24 VTB - 15SC48 VTB - 15SD	<b>24V 2.5A (1.7A)</b> (VTB - 24SC12) VTB - 24SC24 VTB - 24SC48 VTB - 24SD	<b>48V 1A (0.8A)</b> (VTB - 48SC12) VTB - 48SC24 VTB - 48SC48 VTB - 48SD	50W 50W 50W 50W
12V	<b>5V 18A</b> VTD - 05SC12	<b>12V 9A</b> VTD - 12SC12	<b>15V 7A</b> VTD - 15SC12	<b>24V 4.5A</b> VTD - 24SC12	<b>48V 2A</b> VTD - 48SC12	100W
24V 48V 110V	<b>5V 20A</b> VTD - 05SC24 VTD - 05SC48 VTD - 05SD	<b>12V 9A</b> VTD - 12SC24 VTD - 12SC48 VTD - 12SD	<b>15V 7A</b> VTD - 15SC24 VTD - 15SC48 VTD - 15SD	<b>24V 5A</b> VTD - 24SC24 VTD - 24SC48 VTD - 24SD	<b>48V 2A</b> VTD - 48SC24 VTD - 48SC48 VTD - 48SD	100W 100W 100W
12V	<b>5V 27A</b> VTE - 05SC12	<b>12V 13A</b> VTE - 12SC12	<b>15V 10A</b> VTE - 15SC12	<b>24V 6.5A</b> VTE - 24SC12	<b>48V 3.3A</b> VTE - 48SC12	150W
24V 48V 110V	<b>5V 30A</b> VTE - 05SC24 VTE - 05SC48 VTE - 05SD	<b>12V 14A</b> VTE - 12SC24 VTE - 12SC48 VTE - 12SD	<b>15V 11A</b> VTE - 15SC24 VTE - 15SC48 VTE - 15SD	<b>24V 7A</b> VTE - 24SC24 VTE - 24SC48 VTE - 24SD	<b>48V 3.5A(4.2A)</b> VTE - 48SC24 VTE - 48SC48 VTE - 48SD	150W 150W 150W
<b>Multi Output 2 Channel</b>						
12V 24V 48V 110V	<b>+12V 0.75A / -12V 0.5A</b> VTM22WC12 VTM22WC24 VTM22WC48 VTM22WD	<b>+15V 0.5A / -15V 0.5A</b> VTM23WC12 VTM23WC24 VTM23WC48 VTM23WD	<b>+12V 0.8A / -5V 0.8A</b> VTM24WC12 VTM24WC24 VTM24WC48 VTM24WD			15W 15W 15W 15W
12V 24V 48V 110V	<b>5V 2.8A / 24V 0.45A</b> VTA21FWC12 VTA21FWC24 VTA21FWC48 VTA21FWD	<b>24V 0.9A (0.83A) / 5V 1A</b> (VTA21FWC12B) VTA21FWC24B VTA21FWC48B VTA21FWDB	<b>12V 1.2A / 12V 0.9A</b> VTA22FWC12 VTA22FWC24 VTA22FWC48 VTA22FWD	<b>15V 1A / 15V 0.7A</b> VTA23FWC12 VTA23FWC24 VTA23FWC48 VTA23FWD		25W 25W 25W 25W
12V 24V 48V 110V	<b>5V 2.8A / 12V 0.9A</b> VTA24FWC12 VTA24FWC24 VTA24FWC48 VTA24FWD	<b>12V 1.6A / 5V 1.2A</b> VTA24FWC12B VTA24FWC24B VTA24FWC48B VTA24FWDB				25W 25W 25W 25W
12V	<b>5V 5A / 24V 0.75A</b> VTB21FWC12	<b>24V 1.5A / 5V 1.4A</b> VTB21FWC12B	<b>12V 2A / 12V 1.5A</b> VTB22FWC12	<b>12V 3A / 12V - 0.6A</b> VTB22FWC12B		45W
12V	<b>15V 1.5A / 15V 1.3A</b> VTB23FWC12	<b>5V 5A / 12V 1.5A</b> VTB24FWC12	<b>12V 3A / 5V 1.4A</b> VTB24FWC12B			45W
24V 48V 110V	<b>5V 5A / 24V 0.85A</b> VTB21FWC24 VTB21FWC48 VTB21FWD	<b>24V 1.5A / 5V 1.5A</b> VTB21FWC24B VTB21FWC48B VTB21FWDB	<b>12V 2A / 12V 1.7A</b> VTB22FWC24 VTB22FWC48 VTB22FWD	<b>12V 3A / 12V 0.8A</b> VTB22FWC24B VTB22FWC48B VTB22FWDB		45W 45W 45W
24V 48V 110V	<b>15V 1.7A / 15V 1.3A</b> VTB23FWC24 VTB23FWC48 VTB23FWCD	<b>5V 5A / 12V 1.7A</b> VTB24FWC24 VTB24FWC48 VTB24FWD	<b>12V 3A / 5V 1.5A</b> VTB24FWC24B VTB24FWC48B VTB24FWDB			45W 45W 45W
<b>Multi Output 3 Channel</b>						
12V 24V 48V 110V	<b>5V 1.8A</b> <b>+12V 0.15A -12V 0.15A</b> VTM01C12 VTM01C24 VTM01C48 VTM01D	<b>5V 1.8A</b> <b>+12V 0.15A -5V 0.15A</b> VTM03C12 VTM03C24 VTM03C48 VTM03D	<b>5V 1.8A</b> <b>-15V 0.12A -5V 0.12A</b> VTM04C12 VTM04C24 VTM04C48 VTM04D			12.5W 12.5W 12.5W 12.5W
12V 24V 48V 110V	<b>5V 2.8A</b> <b>+12V 0.5A -12V 0.4A</b> VTA01C12 VTA01C24 VTA01C48 VTA01D	<b>12V 1.5A</b> <b>+5V 0.7A -12V 0.25A</b> VTA01C12B VTA01C24B VTA01C48B VTA01DB	<b>5V 2.8A</b> <b>+12V 0.5A -5V 0.5A</b> VTA03C12 VTA03C24 VTA03C48 VTA03D	<b>5V 2.8A</b> <b>+15V 0.36A -15V0.36A</b> VTA04C12 VTA04C24 VTA04C48 VTA04D		25W 25W 25W 25W
12V	<b>5V 5A</b> <b>+12V 0.73A -12V 0.73A</b> VTB01C12	<b>12V 2.7A</b> <b>+5V 1A -12V 0.3A</b> VTB01C12B	<b>5V 5A</b> <b>+12V 0.73A -5V 0.73A</b> VTB03C12	<b>5V 5A</b> <b>+15V 0.6A -15V 0.6A</b> VTB04C12		45W
24V 48V 110V	<b>5V 5A</b> <b>+12V 0.83A -12V0.83A</b> VTB01C24 VTB01C48 VTB01D	<b>12V 3A</b> <b>+5V 1A -12V 0.4A</b> VTB01C24B VTB01C48B VTB01DB	<b>5V 5A</b> <b>+12V 0.83A -5V0.83A</b> VTB03C24 VTB03C48 VTB03D	<b>5V 5A</b> <b>+15V 0.65A -15V0.65A</b> VTB04C24 VTB04C48 VTB04D		45W 45W 45W