

# 45 / 22.5A



## DC-DC Step Up Converters

Model
VTC605-12-12
45 Amps
VTC605-12-24
22.5 Amps

## Design Features

- Shock and vibration tolerance
- Mount in almost any location
- Compact and light weight
- Reverse polarity protection
- Current limiting circuit
- Over voltage crowbar circuit
- Non-isolated for negative ground system
- Ultra quiet low EMI operation
- Rugged marine grade aluminum case

## 2 YEAR LIMITED WARRANTY

MODEL NO.	VTC605-12-12	VTC605-12-24
INPUT VOLTAGE RANGE	10.5 - 18 VDC	10.5 - 28 VDC
INPUT CURRENT LIMIT	50A	50A
OUTPUT VOLTAGE	(Input - 1V) or 13.5 to 17.0, whichever is greater	(Input - 1V) or 24.0 to 27.5, whichever is greater
OUTPUT OVER VOLTAGE CROWBAR	Programmed Output Voltage x (1.3 ± 1%)	
OUTPUT CURRENT	45A	22.5A
ISOLATION INPUT - OUTPUT	Common negative	Common negative
ISOLATION CASE TO INPUT OR OUTPUT	> 500 VDC	> 500 VDC
NOISE ON INPUT	< 50 mV	< 50 mV
OUTPUT RIPPLE & NOISE	< 50 mV	< 50 mV
LOW INPUT VOLTAGE ALARM	10.5 VDC	10.5 VDC
LOW OUTPUT VOLTAGE ALARM	Programmed output voltage minus 2.5 VDC	
TRANSIENT RESPONSE	< 1V for 30A surge	< 1V for 30A surge
INPUT FUSE	60A (2 x 30A ; Type AGC)	60A (2 x 30A ; Type AGC)
OPERATING TEMPERATURE RANGE	-25°C to +40°C / -13°F to +104°F at maximum output	
HUMIDITY (Non-condensing)	Maximum 95%	
EFFICIENCY	> 90% at maximum output	
CONNECTIONS	Terminal Block	
MATERIAL	Marine grade aluminium	
FINISH	Black anodize / power epoxy coat	
FASTENINGS	All 18-8 stainless steel	
DIMENSIONS, MM (L x W x H)	231 x 198 x 108	231 x 198 x 108
DIMENSIONS, INCHES (L x W x H)	9.1 x 7.8 x 4.3	9.1 x 7.8 x 4.3
WEIGHT, KG	2.7	2.7
WEIGHT, LB	6.0	6.0

NOTE: Specifications are subject to change without notice

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