

# HDD100 SERIES

# DC-DC CONVERTER 100W



HDD100 - 24 S 05

WATTAGE

24 : 18~36V IN

48 : 36~72V IN

05: 5V OUT

12: 12V OUT

15: 15V OUT

24: 24V OUT

## MODEL LIST

MODEL NO.	INPUT VOLTAGE	OUTPUT WATTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFF. (MIN.)	CASE
<b>Single Output Models</b>						
HDD100 - 24S05-X	18~36 VDC	100 WATTS	+ 5 VDC	20000 mA	80%	HH
HDD100 - 24S12-X	18~36 VDC	100 WATTS	+ 12 VDC	8300 mA	84%	HH
HDD100 - 24S15-X	18~36 VDC	100 WATTS	+ 15 VDC	6600 mA	84%	HH
HDD100 - 24S24-X	18~36 VDC	100 WATTS	+ 24 VDC	4000 mA	85%	HH
HDD100 - 48S05-X	36~72 VDC	100 WATTS	+ 5 VDC	20000 mA	83%	HH
HDD100 - 48S12-X	36~72 VDC	100 WATTS	+ 12 VDC	8300 mA	85%	HH
HDD100 - 48S15-X	36~72 VDC	100 WATTS	+ 15 VDC	6600 mA	85%	HH
HDD100 - 48S24-X	36~72 VDC	100 WATTS	+ 24 VDC	4000 mA	86%	HH

--SUFFIX "X=P" : PCB MOUNTING TYPE, HEATSINK WILL BE ADDED ON MODULE.

--SUFFIX "X=T" : CHASSIS MOUNTING TYPE:(TERMINAL BLOCK), NO HEATSINK. USE CHASSIS AS HEATSINK OR FAN FORCE COOLING. INDICATE SUFFIX WHEN ORDER.

--SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICED.

## FEATURES

- \* 100W DC/DC CONVERTER
- \* 2:1 INPUT RANGE, PI INPUT FILTER
- \* ISOLATION INPUT AND OUTPUT
- \* HIGH PERFORMANCE UP TO 86%
- \* SHORT CIRCUIT PROTECTION
- \* 2 YEARS WARRANTY



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## SPECIFICATION

All Specifications Typical At Nominal Line, Full Load, 25°C Unless Otherwise Noticed

### GENERAL SPECIFICATION

- \* Switching frequency: ..... 80KHz (typ.)
- \* Isolation voltage: ..... 1,500VDC
- \* Isolation resistance: ..... 1G  $\Omega$ (min.)
- \* Operating ambient temperature: ..... -25 to +71°C
- \* Storage temperature: ..... -25 to +100°C
- \* Max. Case temperature: ..... 100°C
- \* M.T.B.F.: ..... 100,000Hrs at @ GF40, according to MIL-HDBK-217F
- \* Cooling: ..... Ffree air convection
- \* Transient recovery time: ..... 500 $\mu$ S, 25% load step change
- \* Temperature coefficient: .....  $\pm 0.02\%$  / °C
- \* Dimension: ..... 88.9 x 140 x 43mm

### INPUT SPECIFICATIONS

- \* Input voltage range / frequency: ..... 18 ~ 36VDC for 24V  
36 ~ 72VDC for 48V
- \* Input filter: ..... Pi type

### OUTPUT SPECIFICATIONS

- \* Output voltage accuracy: .....  $\pm 1\%$  at Vo\_nom
- \* Line regulation: .....  $\pm 1\%$  at Vo\_nom
- \* Load regulation: .....  $\pm 2\%$  at Vo\_nom for single output models
- \* Ripple & noise: .....  $\pm 1\%$ mV (max.)
- \* Efficiency: ..... Up to 86%, see model list
- \* Voltage trim range: .....  $\pm 10\%$  at Vo\_nom
- \* Derating: ..... See table 1
- \* Case material: ..... Metal

### CONTROL AND PROTECTION

- \* Remote on/off: ..... ON : Open or +5.5VDC(Min.)  
OFF : +1.8VDC(Max.)
- \* Output short circuit: ..... Continuous



