

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
Single Output Models						
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



CHINFA ELECTRONICS IND., CO. LTD.
ISO 9001 Certified

www.chinfa.com
sales@chinfa.com

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 Ω (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 μ 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



