

Shenzhen Hanlunda Industrial Co., Ltd.

HDD69-28T8D5A

	Input Range	Output Voltage	Output Current	Output Ripple & Noise	Input Current ⁽²⁾	Eff ⁽³⁾ (%)	Capacitor ⁽⁴⁾ Load max.	
25 -	- 32 VDC	+8 VDC +5 VDC -5 VDC	8000mA 700mA -300mA	100mVp-p 50mVp-p 50mVp-p	3119mA	83	6000 μ F 1000 μ F 470 μ F	

TECHNICAL SPECIFICATION

All specifications are typical at nominal input, full load with a 2200 μ F at +8V $^{(1)}$, airflow rate = 500LFM and 25°C otherwise noted

OUTPUT SPECIFICATIONS	3		GENERAL SPECIFICATIONS		
Output power		69 Watts max.	Efficiency		83%
Output voltage		+8VDC +5VDC	Isolation voltage	Input to Output 1600VD0	C,min.
-5 +8VDC 800			Isolation resistance	10 ⁹ ohms	s, min
Output current (Note 5)	+5VDC -5VDC	700mA -300mA	Isolation capacitance	2500pF	-
Voltage accuracy Fu	II load and nominal Vin	± 2%	Switching frequency	+5VDC 3	50Khz 00Khz 80Khz
Voltage adjustability (Note 6)	+8VDC	7.5V∼9.0V	Design meet safety standard	IEC60950-1, UL60950-1, EN60	
Minimum load		0%	Case material	Open f	
Line regulation LL	to HL at Full Load	± 0.2%			
Load regulation 0%	6 to 100% FL	± 0.5%	Base material		None
	+8VDC	100mVp-p	Potting material		None
Ripple and noise 20MHz band	width +5VDC -5VDC	50mVp-p 50mVp-p	Dimensions	2.05 X 1.97 X 0.27 (52.0 X 50.0 X 6.8	
Temperature coefficient	± (0.02% / ºC, max.	Weight	25.9g (0	.91oz)
Transient response recovery time	25% load step change	+8V : 2000μS others : 250μS			
Over load protection %	of FL at nominal input	150%, typ.			
Short circuit protection	Continuous, auto	matics recovery			
INPUT SPECIFICATIONS			ENVIRONMENTAL SPECIFICATIONS		
Input voltage range 28	V nominal input	25 – 32VDC	Operating ambient temperature	e (Note 8) -40°C ~ +85°C (with de	rating)
Input filter		Pi type	Over temperature protection	140°C	C, typ.
Start up time Nominal Vin and constant resistive lo	pad Power up	35ms,typ.	Storage temperature range	-55°C ~ +	125ºC
Remote ON/OFF (Note 7)					
Positive logic		or 3V < Vr < 12V			
Input current of remote control pin	OFF= Short o Nominal Vin	or 0V < Vr < 1.2V -0.5mA~+1mA			
Remote off state input current	Nominal Vin	-0.5mA~+1mA 3mA			

Note

- 1. The capacitor 2200 μ F at +8V output must near to the pins for stability.
- 2. Maximum value at nominal input voltage and full load.
- 3. Typical value at nominal input voltage and full load.
- 4. Test by minimum Vin and constant resistive load.
- 5. A 20A/6ms pulse output current may flow through +8V output. The output should not be shutdown.
- 6. +8V output voltage programmable from 8.0V to 9.0V by connecting a single resistor Ru or 7.5V to 8.0V by connecting a single resistor Rd (show the Fig. 1) use the following equation :

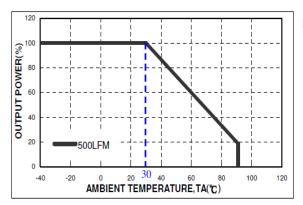
Ru =
$$\left[\frac{25}{\text{Vo} - 8} - 22\right]$$
 KΩ Rd = $\left[\frac{10 * \text{Vo} - 25}{8 - \text{Vo}} - 22\right]$ KΩ

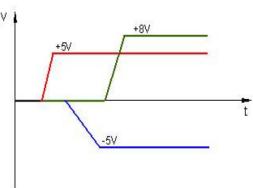
7. The pin voltage is referenced to negative input.

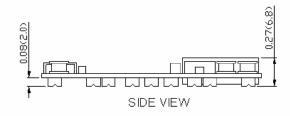
CAUTION: This power module is not internally fused. An input line fuse must always be used.

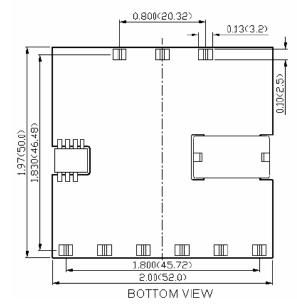
DERATING CURVE

START-UP SEQUENCE









PIN CONNECTION						
PIN	HDD69-28T8D5A					
1	+INPUT					
2	-INPUT					
3	CTRL					
4	+8V OUTPUT					
5	COMMON					
6	TRIM					
7	+5V OUTPUT					
8	COMMON					
9	-5V OUTPUT					

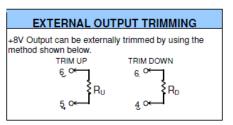


Fig. 1

- All dimensions in Inches (mm)
 Tolerance: X.XX±0.02 (X.X±0.5)
 X.XXX±0.01 (X.XX±0.25)
 Pin pitch tolerance ±0.01(0.25)
- 3. Pin dimension tolerance ±0.004 (0.1)