

**HFS-DS28WNP (Non-isolated)****Constant Current Source for LED drive**

340~420V/60mA

**Features**

- Very Slim & Narrow
- Non-isolated Input-Output
- High efficiency
- Flicker Free output
- AC 100-242V Wide input voltage range
- 340~420V constant current operation range
- Active PFC correction PF>0.95
- Low input current THD (Meet IEC61000-3-2 Class C)
- Protections for Short circuit, Over load and Over temp.
- RoHS
- Long lifetime over 40,000Hr

**Applications**

- 1200/2400mm LED Fluorescent Lamp

**Electrical characteristics**

Parameter	Symbol	Conditions	Specification			Unit
			Min	Typ	Max	
Input supply voltage	$V_{IN}$		90	220	242	$V_{AC}$
Input current	$I_{IN}$	$V_{IN}=100V, 26W$	0.24	0.26	0.28	A
Power consumption	$P_{IN}$	$V_{IN}=100\sim 242V$		26		W
Power factor	$\cos\theta$	$V_{IN}=100\sim 242V$		0.95		
Output current	$I_O$	$V_{IN}=100\sim 242V$	58	60	62	mA
Available output voltage	$V_O$	$V_{IN}=100\sim 242V$	340		420	V
No load output voltage	$V_{o-open}$	$V_{IN}=100\sim 242V$			450	V
Efficiency		$V_{IN}=200V, 26W$		94		%

**Absolute maximum ratings**

Lower Input supply voltage ( $V_{IN}$ )	-----	90V
Higher Input supply voltage ( $V_{IN}$ )	-----	264V
Maximum output voltage with load	-----	420V
Minimum output voltage with load	-----	340V
Output current ( $I_o$ )	-----	80mA
Input power	-----	30W
Ambient operating temperature	-----	-20 °C to 50 °C
Storage temperature range	-----	-30 °C to 80 °C
Operating & storage humidity	-----	10 % to 85 %

**AC Wire and DC Connector**

- AC Input Wire : UL, AWG 22, BK / Live  
UL, AWG 22, WH / Neutral
- DC Output (CN2 Connector) : SM02(8.0)B-BHS-1 (JST or Equivalent)  
CN2 -1 / DC Out (-)  
CN2 -2 / DC Out (+)

**Mechanical dimensions**

Tolerance :  $\pm 0.5$   
Unit : mm

