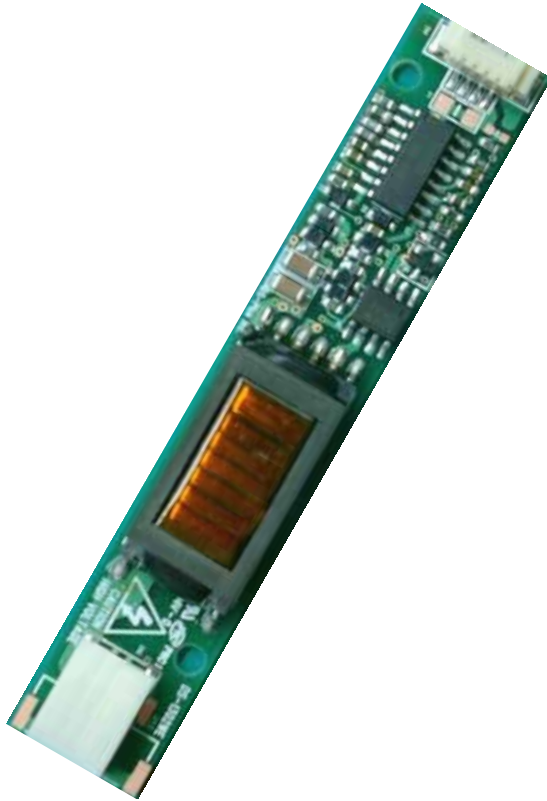


DS-1302WE(Vtg)



Features

- Drive 1-lamp
- Wide input voltage operation
- Accurate and stable output current regulation
- Long lamp life with soft start
- Low sleep current
- Voltage Dimming control
; no influence to power ripple
- Protection against lamp open or failure
- High efficiency
- Low EMI and spurious noise

Applications

- 3.8~14.1" Desktop LCD monitor
- Industrial LCD panel

Electrical characteristics

Parameter	Symbol	Conditions*	Specification			Unit
			Min	Typ	Max	
Input supply voltage	V_{IN}		10.8	12.0	13.2	V
Input current	I_{IN}	$V_{IN}=12V, V_{BRT}=0V$	0.19	0.22	0.25	A
Full bright lamp current	$I_{O(MAX)}$	$V_{IN}=12V, V_{BRT}=0V$	4.1	4.6	5.1	mArms
Minimum lamp current	$I_{O(MIN)}$	$V_{IN}=12V, V_{BRT}=5.0V$	1.8	2.3	2.8	mArms
Operating frequency	F_O	$V_{IN}=12V, V_{BRT}=0V$	55	60	65	KHz
Dimming ratio(Vtg - dim)		$V_{IN}=12V, V_{BRT}=0$ to 5.0V		2 : 1		
Sleep current	I_{SLEEP}	$V_{IN}=12V, V_{SLEEP}=0V$			10	mA
Efficiency		$V_{IN}=12V, V_{BRT}=0V$	80	88		%

* At the reference 8.4" of AUO LCD Panel

DS-Plus Inc./ ()

Room 403, Ssangyong IT twin tower-1, 442-17 Sangdaewon-dong, Jungwon-gu, Seongnam-city 462-807, Korea
Tel : 82-31-608-7100~3, Fax : 82-31-608-7104

Absolute maximum ratings

Input supply voltage (V_{IN})	-----	-0.3V to 14V
Output current (I_O)	-----	8.0mA _{rms}
Output power	-----	5.0W
Sleep & Bright adjust signal voltage (V_{SLEEP} , V_{BRT})	----	-0.3V to V_{IN}
Ambient operating temperature	-----	0 °C to 50 °C
Storage temperature range	-----	-30 °C to 80 °C
Operating & storage humidity	-----	10 % to 85 %

Recommended operating conditions (R.C.)

Parameter	Symbol	Recommendation			Units
		Min	R.C.	Max	
Input supply voltage	V_{IN}	10.8	12.0	13.2	V
Full bright lamp current	$I_{O(MAX)}$	4.1	4.6	5.1	mA _{rms}
Brightness control voltage range	V_{BRT}	0		5.0	V
Lamp on/off control voltage	V_{SLEEP}	3.0	5.0	7.0	V
Lamp operating voltage	V_O		490		V _{rms}
Operating ambient temperature range	T_A	0		50	°C

Connector and functional pin description

- CN1 Connector : 12505WR-04A00 (YEONHO or Equivalent)
- CN1 - 1 V_{IN} (Input power supply)
 - CN1 - 2 G_{ND} (Power supply return)
 - CN1 - 3 V_{SLEEP} (Lamp On/Off control ; Off at Low, On at High)
 - CN1 - 4 V_{BRT} (Bright adjust ; 0 to 5.0V)
- CN2 Connector (Option) : 35001WR-02A00 (YEONHO or Equivalent)
or 20015WR-05A00 (YEONHO or Equivalent)
- CN2 - 1 High voltage
 - CN2 - 2 Lamp current return

Mechanical dimensions

