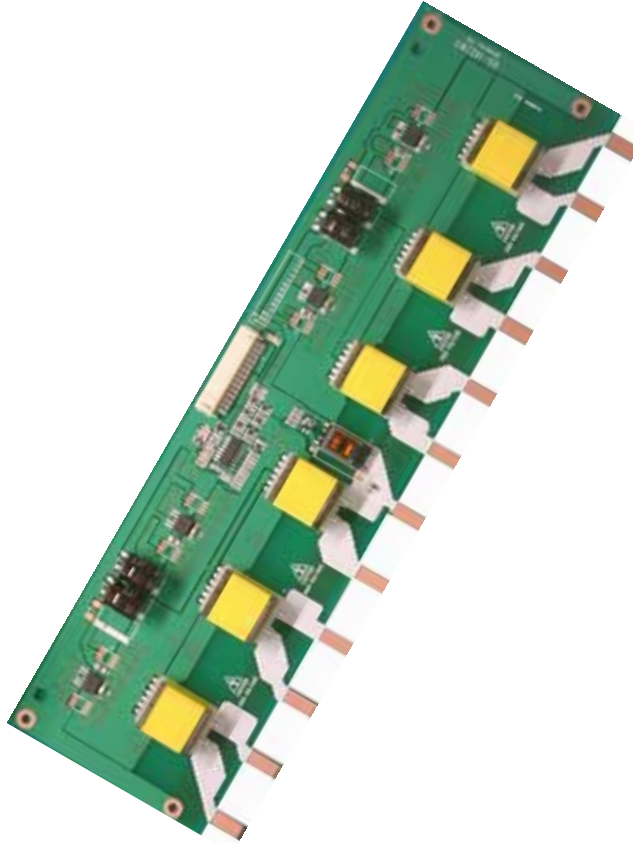


DS-1422WS(24V)



Features

- Drive 12-lamps
- 12 straight lamps & 6 C-shape lamps BLU are available
- Nominal current 6.5 mArms for each lamp
- 21.6 to 26.4V input voltage range
- Accurate and stable output current regulation
- All lamp operation frequency synchronized
- Voltage controlled dimming
- External-PWM Dimming control (Option)
- Long lamp life with soft start
- High efficiency
- Low EMI and spurious noise

Applications

- 20.1~24" high brightness LCD TV & Monitor

Electrical characteristics

Parameter	Symbol	Conditions*	Specification*			Unit
			Min	Typ	Max	
Input supply voltage	V_{IN}		21.6	24.0	26.4	V
Input current	I_{IN}	$V_{IN}=24V, V_{BRT}=0V$	2.7	3.2	3.7	A
Full bright lamp current	$I_{O(MAX)}$	$V_{IN}=24V, V_{BRT}=0V$	5.5	6.5	7.5	mArms
Minimum lamp current	$I_{O(MIN)}$	$V_{IN}=24V, V_{BRT}=5.0V$	2.0	3.0	4.0	mArms
Operating frequency	F_O	$V_{IN}=24V, V_{BRT}=0V$	45	50	55	KHz
Dimming ratio		$V_{IN}=24V, V_{BRT}=0$ to 5.0V		2 : 1		
Striking time		$V_{IN}=24V, V_{BRT}=0$		0.5		sec
Efficiency		$V_{IN}=24V, V_{BRT}=0V$	75	84		%

* At the reference of 24" LCD-module(LTM240M2-L01) of Samsung

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

DS-1422WS(24V)

Input supply voltage (V_{IN})	-----	-0.3V to 26.4V
Output voltage, no load	-----	Internally limited to zero volt
Output current (I_O)	-----	9.0mA _{rms}
Output power (per lamp)	-----	8.0W
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.)

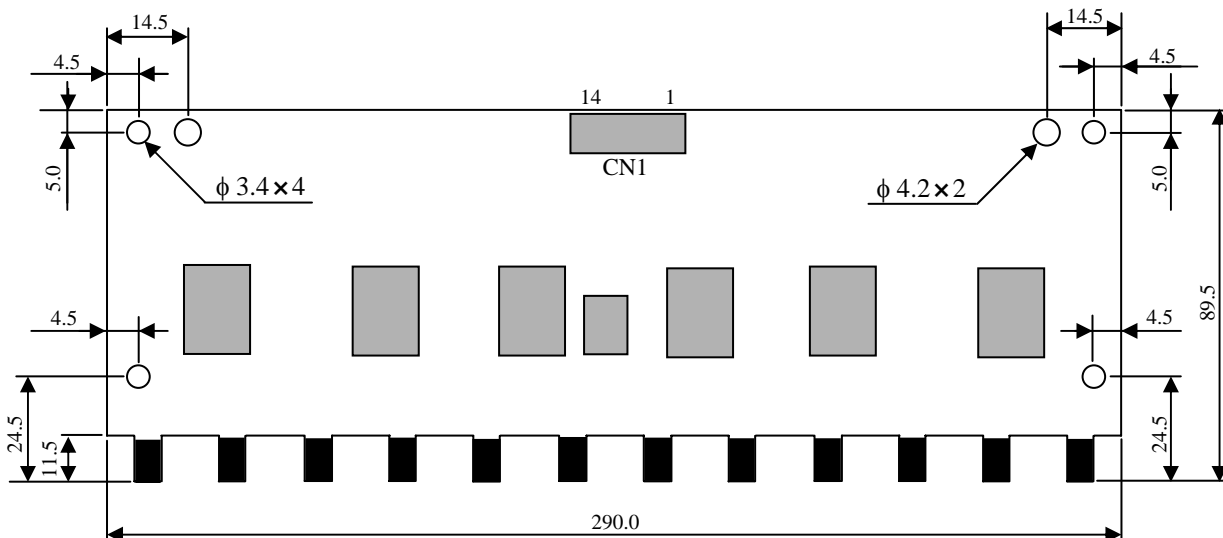
Parameter	Symbol	Recommendation			Units
		Min	R.C.	Max	
Input supply voltage	V_{IN}	21.6	24.0	26.4	V
Full bright lamp current	$I_{O(MAX)}$	5.5	6.5	7.5	mA _{rms}
Brightness control voltage range	V_{BRT}	0		5.0	V
Lamp on/off control voltage	V_{SLEEP}	2.0	3.0	5.0	V
Lamp operating voltage(reference)	V_O		-		V _{rms}
Operating ambient temperature range	T_A	0		50	°C

Functional pin description

CN1 Connector	:	2002WR(S) - 14A00(YEONHO or Equivalent)
CN1 - 1,2,3,4,5		V_{IN} (DC Input ; 24.0V)
CN1 - 6,7,8,9,10		G_{ND}
CN1 - 12		V_{SLEEP} (Lamp On/Off control ; Off at Low, On at High)
CN1 - 13		V_{BRT} (Analog Dimming - Bright adjust ; 0 to 5.0V)
CN1 - 14		External - PWM Dimming control (Option)

Mechanical dimensions

Tolerance : ± 0.5
Unit : mm



Notice : The specification is subject to change without notice

Thickness : 13.0mm max.