

7.2 Backlight Unit

Physical interface is described as for the connector on module. These connectors are capable of accommodating the following signals and will be following components.

7.2.1 Connector

Connector Name / Designation	Light Bar Connector
Manufacturer	ENTERY INDUSTRIAL CO., LTD
Type Part Number	3707K-S06N-01R

7.2.2 Pin Assignment

Pin no.	Signal name
1	IRLED (current out)
2	IRLED (current out)
3	VLED (voltage in)
4	VLED (voltage in)
5	IRLED (current out)
6	IRLED (current out)





5.1.3 Backlight unit

Parameter guideline for LED driving is under stable conditions at 25°C (Room Temperature):

Symbol	Parameter	Min.	Typ.	Max.	Unit	Note
I_{LED}	LED Operation Current	-	60	-	[mA] Note 1	Operating with fixed driving current
V_{LB}	Light Bar Operation Voltage (for reference)	-	41	43.2	[Volt] Note 2	
P_{BLU}	BLU Power consumption (for reference)	-	9.8	-	[Watt]	
LT_{LED}	LED life Time (Typical)	25,000	30,000	-	[Hour] Note 3	

Note 1 :The specified current is input LED chip 100% duty current.

Note 2 : The value showed in the table is one light bar's operation voltage.

Note 3 : Definition of life time : brightness becomes 50% of its original value. The minimum life time of LED unit is on the condition of $I_{LED} = 60mA$ and $25\pm 2^\circ C$ (Room temperature).

Note 4: Each LED light bar consists of 48 pcs LED package (4 strings x 12 pcs / string).

