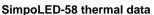
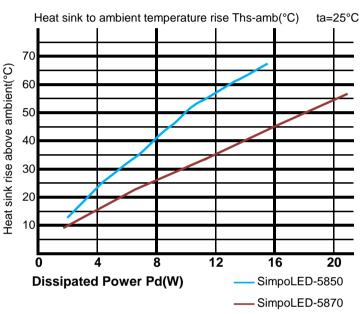


SimpoLED SimpoLED-58 Series Ø58mm Material AL6063-T5 COB Star Heat Sinks Thermal Data

The thermal data table

Pd = Pe x (1-ηL)		Heat sink to ambient temperature rise Ths-amb (°C)	Heat sink to ambient temperature rise Ths-amb (°C)
		SimpoLED-5850	SimpoLED-5870
Dissipated Power Pd(W)	2	14.5	10.0
	4	25.0	16.0
	6	34.5	22.0
	8	43.0	28.0
	10	51.0	32.5
	12	58.0	37.5
	20		55.3





* Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.

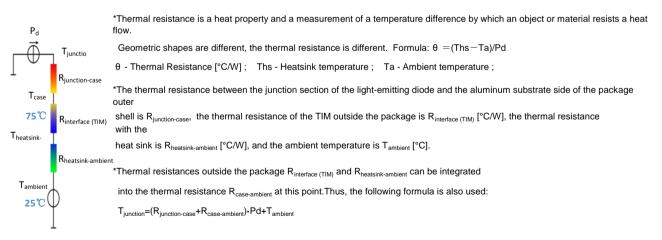
*To calculate the dissipated power please use the following formula: $Pd = Pe x (1-\eta L)$.

Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).

MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.

Either thermal grease, A thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended.



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