



Distributed by Sunlux

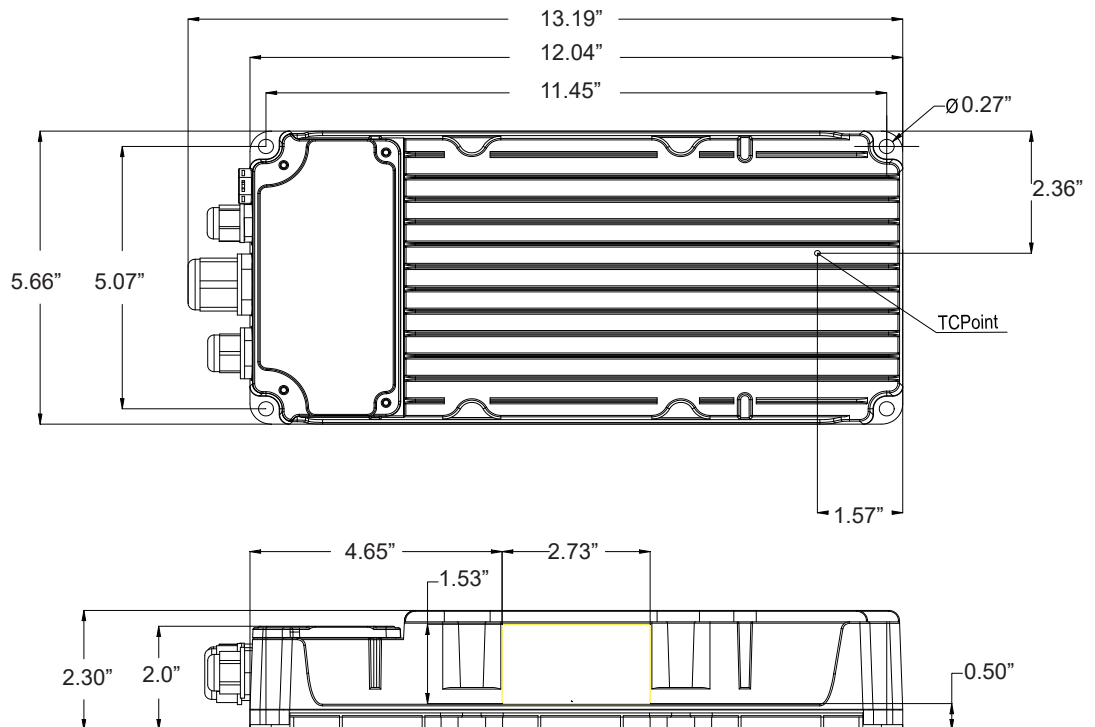


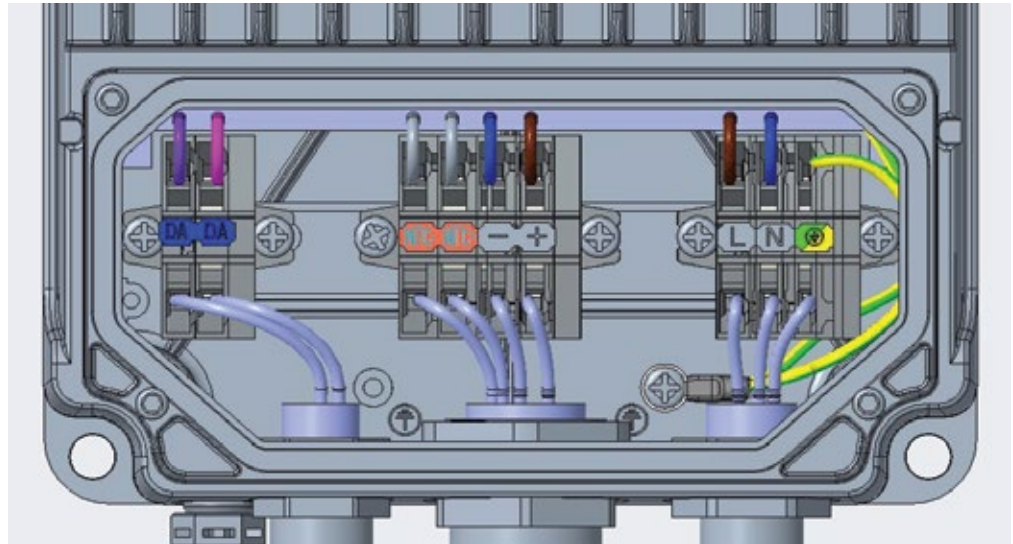
Product Features

- Universal input voltage / Full range: 198~528Vac
- Isolated Constant Power Design
- DALI-2 control
- Ultra low ripple: <2%
- PF: >0.95@100%load
- THD<15%@100%load
- Inrush Current < 40A@480Vac
- Surge Protection: DM 6KV, CM 10KV
- All around protection SCP, OVP, OTP
- Ingress Protection Rating: IP66, IK08
- Ambient Temperature: -40°C ~ 50°C
- 5 year Warranty
- Best use in, Stadium Lighting, Area and Flood Lighting, High-bay Lighting etc.

Model N°	Max Output Power (W)	Output Volt. (Vdc)	Input Voltage Range (Vac)	Full Power Output Current Range (A)	Default Current (A)	Typical Efficiency	Power Factor
S6-600D360	600W	172-360V	198-528Vac	1.67~3.00A	2.1	94%	0.97

Physical





General Specifications

Parameter	Description			Notes
	Min.	Typ.	Max.	
Efficiency @220Vac Io: 1.67A	92.5%	94%	—	Measured at full load and 25°C - ambient temperature
Efficiency @220Vac Io: 3.00A	92.5%	94%	—	
Efficiency @400Vac Io: 1.67A	93.0%	94.5%	—	
Efficiency @400Vac Io: 3.00A	93.0%	94.5%	—	
Efficiency @480Vac Io: 1.67A	93.5%	95.0%	—	
Efficiency @480Vac Io: 3.00A	93.0%	94.5%	—	
Mean time between Failure	—	200Khours	—	25°C+/-10°C ambient temp. 230Va, 100% load
Lifetime	—	50Khours	—	Tc=75°C, 230Vac&100% load
Operating Temperature Ta	-40°C	—	+50°C	220-480Vac&100% load
Operating Tc for Safety Tc_s	-40°C	—	+90°C	
Operating Tc for Warranty Tc_w	-40°C	—	+75°C	Humidity: 10% to 80% RH No Condensation
Storage Temperature Ta	-40°C	—	+85°C	Humidity: 5% to 50% RH No Condensation
Altitude	-60m	—	4000m	
Input Under Voltage Protection	152Vac	167Vac	186Vac	
External NTC(R1)	—	18K ohm (Set by Software)	—	When the R-NTC is reduced to R1, the external thermal protection is triggered and the output current gradually decreases
External NTC(R2)	—	9.1K ohm (Set by Software)	—	When the R-NTC is reduced to R2, the output current is reduced to the programmed protection current value
External NTC (Protection Circuit)	10%I _o set	60%I _o set	100%I _o set	10%I _o set>I _o min (Default setting 60%)
External NTC (Protection Circuit)	I _o min	60%I _o set	100%I _o set	10%I _o set<=I _o min (Default setting 60%)
Over Temperature Protection Tc	—	93°C	—	Tc; 230BVac&100% load
Short Circuit Protection	—	—	—	Self - recovery after 30 seconds.
Dimensions (L*W*H)	13.19" * 5.66" * 2.30"			
Net Weight	6.83 +/- 0.11 Lbs			
Storage Temperature Ta	-40°C	—	+85°C	Humidity: 5% to 50% RH No Condensation
Dielectric Strength (Input - Output)	—	4372Vac	—	60S, Current not exceeding 5mA
Dielectric Strength (Input - Ground)	—	1830Vac	—	
Dielectric Strength (Output - Ground)	—	2100Vac	—	
Dielectric Strength (Input - Dimming)	—	1600Vac	—	
Dielectric Strength (Dimming - Ground)	—	500Vac	—	
Grounding Resistance	—	—	0.1Ω	25°C+/-10°C Ambient Temp. pass 25A Current, 60S
Insulation Resistance	10MΩ	—	—	Input-Output, Input-PE, Output PE, 500Vdc/60s/25°C

Input Specifications

Parameter	Description			Notes
	Min.	Typ.	Max.	
Input Voltage	198Vac	220/277/347/400/480Vac	528Vac	
Input Frequency	47Hz	50/60Hz	63Hz	
Max Input Current	–	–	3.2A	220-480Vac&Full Load
Max Input Power	–	–	660W	220Vac&Full Load
Lakeage Current	–	–	0.70mA	IEC 60598-1;240Vac/60hz
Inrush Current	–	–	30A	220Vac&Full Load, Cold Start
Standby Power Consumption	–	–	0.5W	230Vac&50Hz
Power Factor	0.96	0.98	–	220Vac, 50/60Hz, 100% load
	0.90	0.95	–	480Vac, 50/60Hz, 70%-100% load
THD	–	5%	10%	220-400Vac, 50-60Hz, 100% load
	–	15%	20%	220-480Vac, 50-60Hz, 70%-100% load

Output Specifications

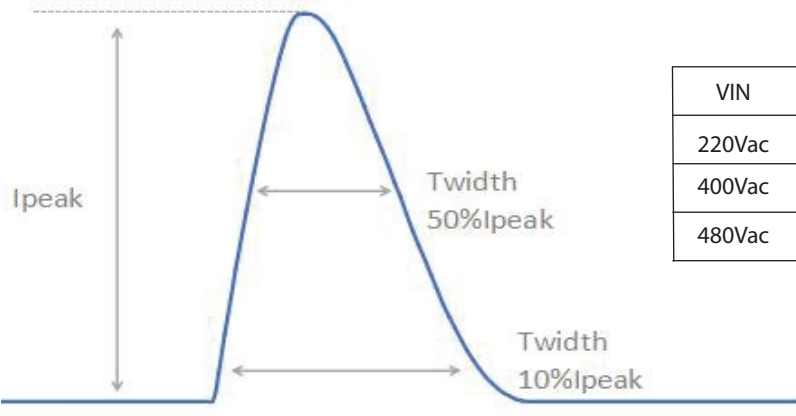
Parameter	Description			Notes
	Min.	Typ.	Max.	
Output Voltage Range	172Vdc	–	360Vdc	The full power cannot be lower than 200V
Open Circuit Voltage	–	–	420Vdc	The open circuit protection is locked, and the AC needs to be powered on again
Open Current Range	0.30A	–	3.00A	The Dali programmer regulates the I _{set} Current
Full Power Current Range	1.67A	–	3.00A	
Current Accuracy	-5%	–	+5%	I _{set} > 1.67A
Total Output Current Ripple (pk-pk)	–	5%	10%	>15KHz BW, full load & LED load, the ripple would be tiny different under different LED load
	–	1.5%	2%	<1KHz BW, full load & LED load, the ripple would be tiny different under different LED load
Startup Overshoot Current	–	6%	10%	220-480Vac& 100% Load
Line Regulation	-1%	–	+1%	25°C +/- 10°C ambient temperature input voltage changes from 220Vac to 480Vac
Load Regulation	-3%	–	+3%	25°C +/- 10°C ambient temperature input voltage 230Vac load changes from 60% to 100%
Turn-on Delay Time	–	–	2S	230Vac, 100% load

Dimming Specifications

Parameter	Description			Notes
	Min.	Typ.	Max.	
DALI-2 (High Voltage Level)	9.5V	16V	22.5V	
DALI-2 (Lower Voltage Level)	0V	–	6.5V	
DALI-2 (Dimming Output Range)	10%I _{max}	–	100%I _{max}	I _{max} = 3.00A
DALI-2 (Sink Current)	0mA	–	2.0mA	
Output Lumen Compensation	–	–	–	Constant lumen output function
Lifetime Warning	–	–	–	When the power supply reaches the set lifetime (Example 50000H), the power supply is restarted, the output current remains constant 10% Io in 1min. or output flashing warning to indicate that power supply needs to be replaced.
PWM_in frequency range	300Hz	–	2KHz	
PWM_in Duty Cycle	1%	–	99%	

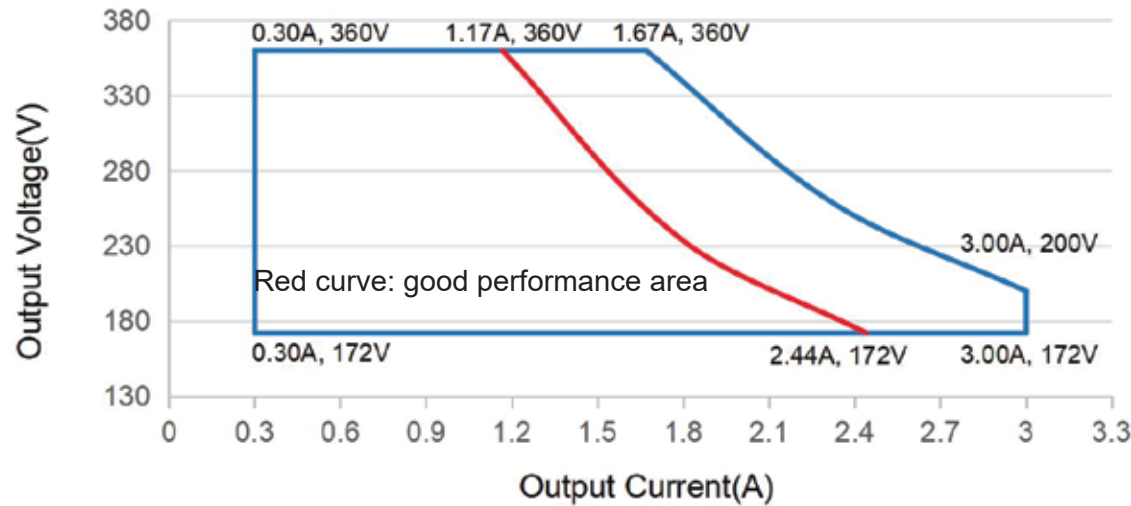
Specification

Inrush Current

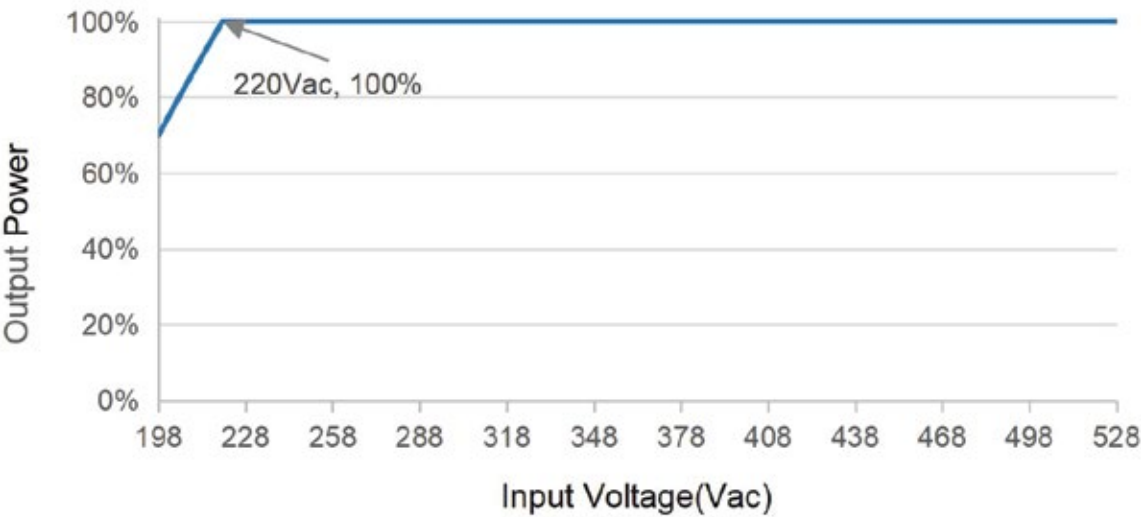


VIN	Ipeak	T(@10% of Ipeak)	T(@50% of Ipeak)
220Vac	12.7A	2.44ms	1.03ms
400Vac	24.6A	2.50ms	1.120ms
480Vac	27.6A	2.50ms	1.120ms

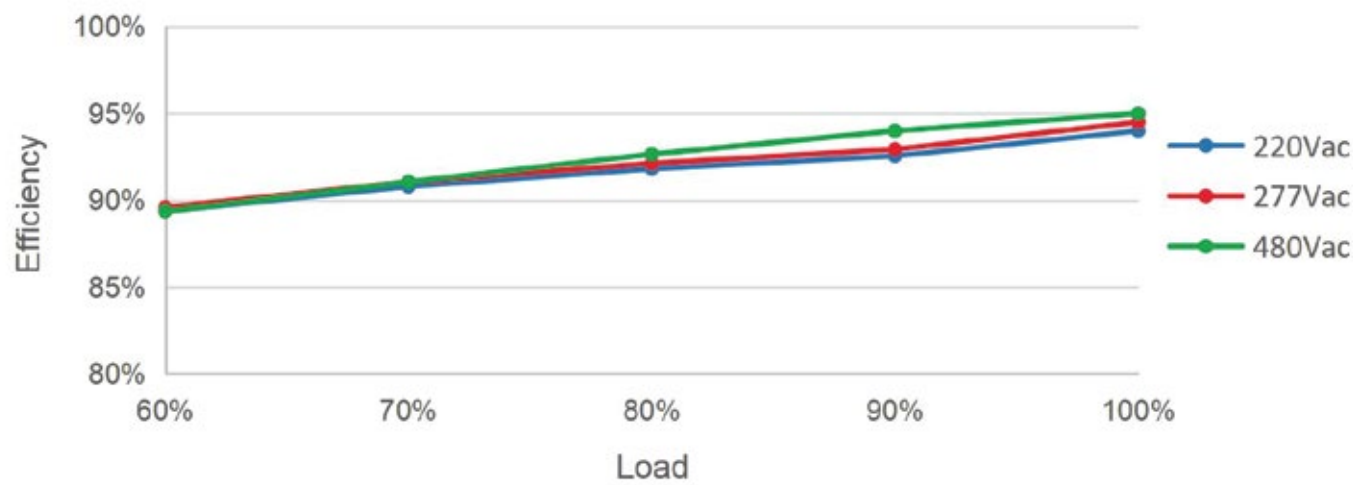
Output Voltage Vs. Output Current



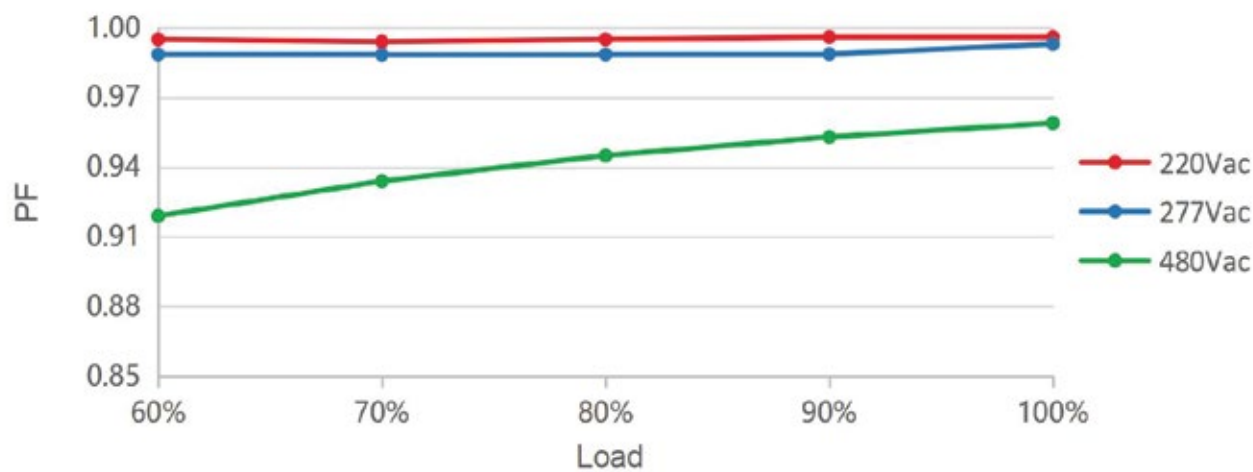
Output Power vs. Input Voltage



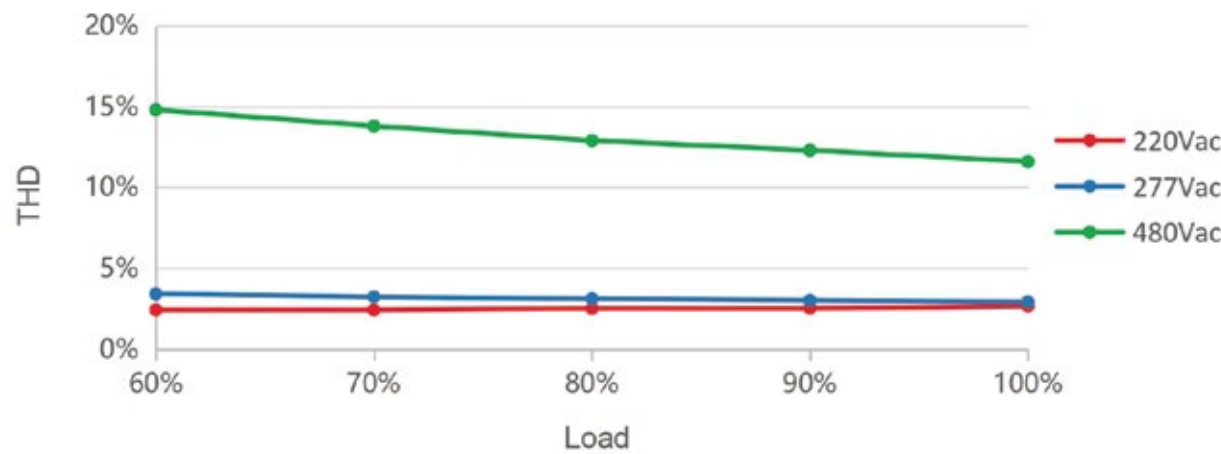
Efficiency vs Load



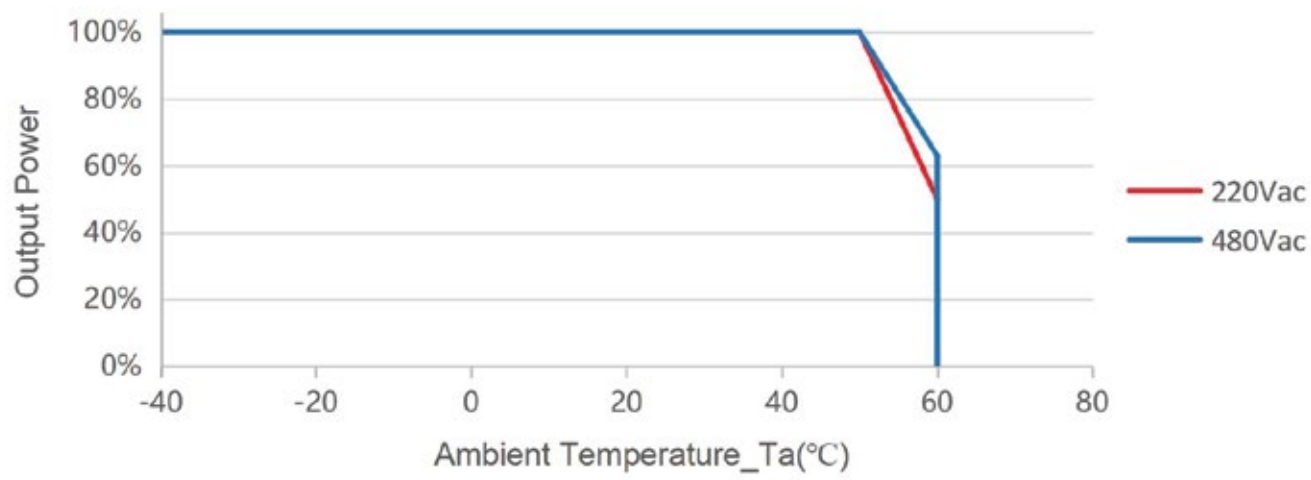
PF vs Load



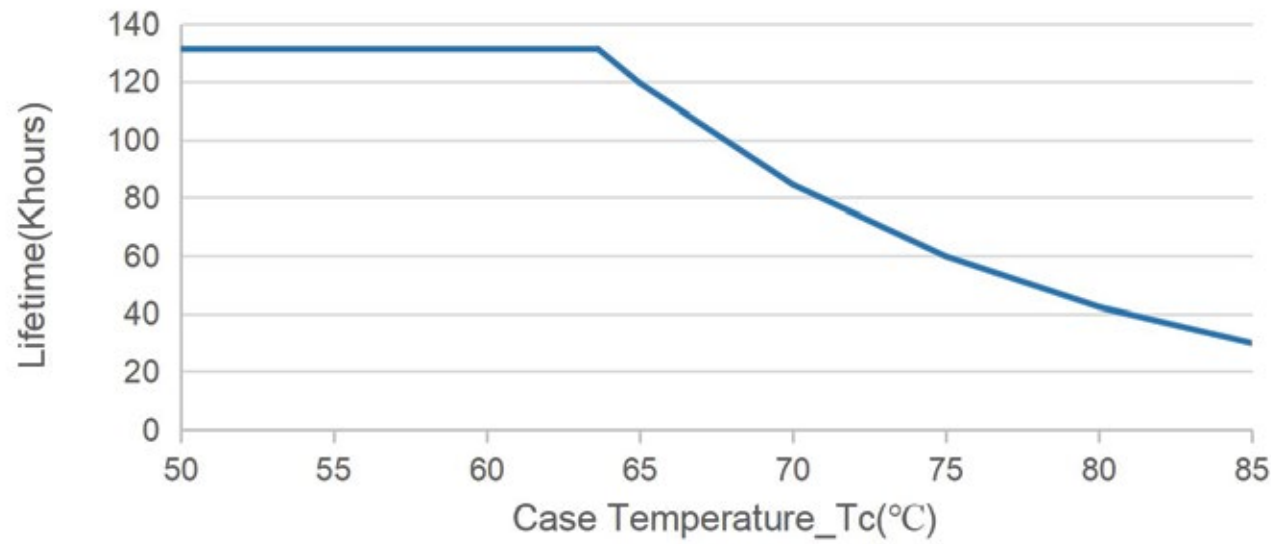
THD vs Load



Output Power vs Load Ambient Temperature



Lifetimes vs Case Temperature



DALI-2 Dimming

