

Constant Current 120W DALI+PUSH LED Driver Series**■ Features :**

- Constant Current mode output with multiple levels selectable by dip switch
- Emergency lighting application is available according to IEC61347-2-13
- Built-in active PFC function and class II design
- Standby power consumption <0.5W
- Functions: DALI interface(logarithm or linear dimming curve selectable), push dimming synchronization up to 10units
- 3 years warranty

■ Applications :

- LED indoor lighting
- LED office lighting
- LED commercial lighting
- LED panel lighting
- Industrial lighting

■ Description :

GRT-DCC120-DA series is a 120W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the DALI interface with the compliance to IEC62386. GRT-DCC120-DA operates from 100~240VAC and offers different current levels ranging between 350mA and 750mA. Thanks to the efficiency up to 86%, with the fanless design, the entire series is able to operate for -30°C ~+85°C case temperature under free air convection. In addition, GRT-DCC120-DA is equipped with push dimming and synchronization functions, so as to provide the optimal design flexibility for LED lighting system.

■ **Specification**

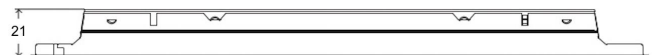
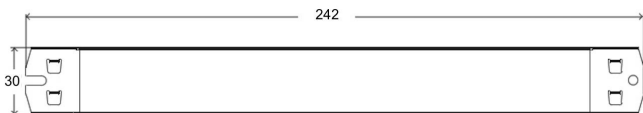
MODEL		GRT-DCC120-DA		
OUTPUT	CURRENT LEVEL	Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section		
		350mA	500mA	750mA
	RATED POWER	120W		
	DC VOLTAGE RANGE	36 ~ 340V	36 ~ 240V	36~ 160V
	OPEN CIRCUIT VOLTAGE (max.)	380V	380V	380V
	CURRENT RIPPLE	5.0% max. @rated current		
	CURRENT TOLERANCE	±5%		
SETUP TIME	Note.3 Note.8	500ms / 230VAC		
INPUT	VOLTAGE RANGE	Note.2	100 ~ 240VAC (Please refer to "STATIC CHARACTERISTIC" section)	
	FREQUENCY RANGE		47 ~ 63Hz	
	POWER FACTOR (Typ.)		PF ≥ 0.94/230VAC, PF ≥ 0.91/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)	
	TOTAL HARMONIC DISTORTION		THD< 20%(@load≥50%/230VAC; @load≥75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)	
	EFFICIENCY (Typ.)	Note.4	86%	
	AC CURRENT (Typ.)		0.17A/230VAC	0.15A/277VAC
	INRUSH CURRENT (Typ.)		COLD START 20A(twidth=260µs measured at 50% Ipeak) at 230VAC; Per NEMA 410	
	MAX. No. of PSUs on 16A		26 units (circuit breaker of type B) / 44 units (circuit breaker of type C) at 230VAC	
	LEAKAGE CURRENT		<0.5mA / 240VAC	
	STANDBY POWER CONSUMPTION		<0.5W	
PROTECTION	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed	
	OVER TEMPERATURE		Shut down o/p voltage, recovers automatically after temperature goes down	
FUNCTION	DIMMING		Please refer to "DIMMING OPERATION" section	
	SYNCHRONIZATION		Please refer to "SYNCHRONIZATION OPERATION" section	
ENVIRONMENT	WORKING TEMP.		Tcase=-30 ~ +85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)	
	MAX. CASE TEMP.		Tcase=+85°C	
	WORKING HUMIDITY		20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT		±0.03%/°C (0 ~ 50°C)	
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS		UL8750(except for DA2-Type), CSA C22.2 NO.250.0-08, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent,GB19510.14,GB19510.1,BIS IS15885(except for DA2-Type), EAC TP TC 004 approved; According to	
	DALI STANDARDS		IEC62386-101, 102, 207,251	
	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC ; I/P-DA:1.5KVAC ; O/P-DA:1.5KVAC	
	ISOLATION RESISTANCE		I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH	
	EMC EMISSION	Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C(@load ≥ 50%) ; BS EN/EN61000-3-3; GB17625.1,GB17743, EAC TP TC 020	
EMC IMMUNITY		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level(surge immunity Line-Line 2KV),		
OTHERS	MTBF		2661.8K hrs min. Telcordia SR-332 (Bellcore) ; 213.3K hrs min. MIL-HDBK-217F (25°C)	
	DIMENSION		150*47*37mm (L*W*H)	
	PACKING		0.17Kg ; 72pcs/13.2Kg/1.04CUFT	

Notes:

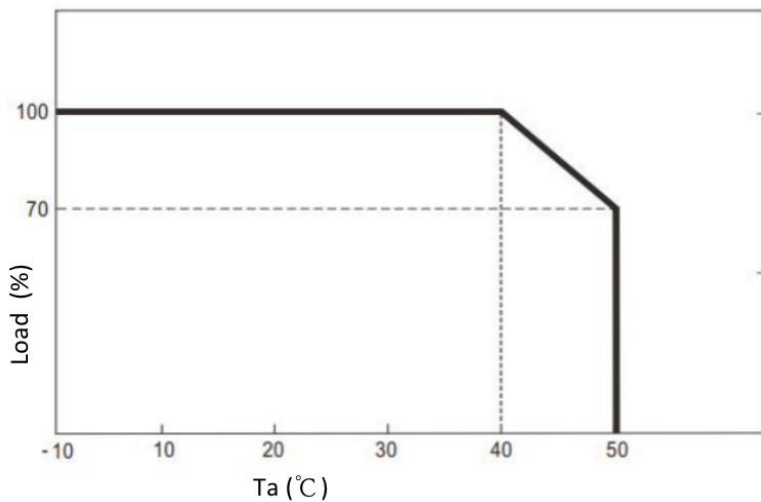
1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.
2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
3. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
4. Efficiency is measured at 500mA/50V output set by DIP switch.

5. Standby power consumption is measured at 230VAC.
6. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
7. The ambient temperature derating of 3.5C/1000m with fanless models and of 5'C/1000m with fan models for operating altitude higher than 2000m(6500ft).
8. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the set up time will be higher than 0.5 second for DA2-type.
9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

■ Dimension(mm)



■ Derating Curve



■ Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.