













1000W Constant Power Mode LED Driver









Features

- Wide input range 180 ~ 528VAC
- · Constant power mode output
- · Metal housing with Class I design
- Surge protection with 8KV/4KV
- · Built-in active PFC function
- · IP67 design for indoor or outdoor installation
- 3 in 1 dimming (dim to off and Isolation); Smart timer dimming and DALI-2
- Support with auxiliary DC output 12V/500mA
- Typical lifetime>50000 hours
- 5 years warranty

Applications

- · Harbor lighting
- · High-bay lighting
- Flood lighting
- Fishing lamp
- Horticulture lighting
- Stadium lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

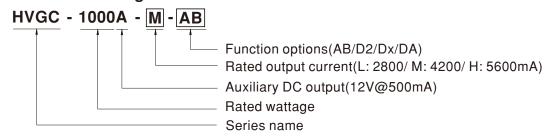
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

HVGC-1000 series is a 1000W LED AC/DC driver featuring the constant power mode with wide output voltage range. HVGC-1000 operates from 180~528VAC and offers models with different rated current ranging between 1320mA and 7000mA. Thanks to the high efficiency up to 96%, with the fanless design, all models are able to operate for -40°C ~+90°C case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications, such as horticulture lighting and stadium light HVGC-1000 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



	Type IP Level		Function	Note
	AB	AB IP67 Standard constant power output with 3 in 1 dimming function (0~10Vdc 10V PWM signal and resistance) and built-in potentiometer.		In Stock
Г	D2	IP67	Built-in Smart timer dimming and programmable function.	By request
	Dx	IP67	Built-in Smart timer dimming function by user request.	By request
	DA	IP67	DALI-2 control technology with Io Adjustable via built-in potentiometer.	By request



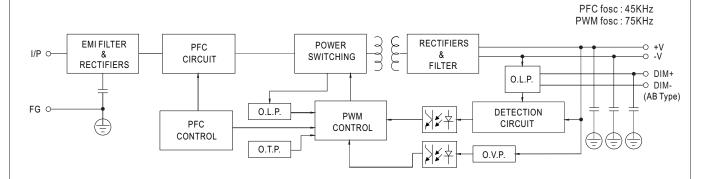
SPECIFICATION

MODEL		HVGC-1000A-L-	HVGC-1000A-M-	HVGC-1000A-H-				
	RATED CURRENT	2800mA	4200mA	5600mA				
	RATED POWER	1003.2W	1008W	1008W				
	CONSTANT CURRENT REGION Note.2	150 ~ 380V	95 ~ 240V	70 ~ 180V				
	FULL POWER CURRENT RANGE	2640~3280mA	4200~5250mA	5600~7000mA				
	OPEN CIRCUIT VOLTAGE (max.)	400V	250V	190V				
OUTPUT	CURRENT ADJ. RANGE	1320~3280mA	2100~5250mA	2800~7000mA				
	CURRENT RIPPLE	3.0% max. @ rated current						
	CURRENT TOLERANCE	±5%						
	AUXILIARY POWER	Nominal 12V (Tolerance: ±10%, R&N:150mVp-p)@500mA for HVGC-1000A only						
	SET UP TIME Note.4	500ms/230VAC, 347VAC, 480VAC						
		80 ~ 528VAC						
	VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
	TREGOENOTRANOE		47 ~ 63HZ PF≥0.98 / 230VAC, PF≥0.98 / 277VAC, PF≥0.97 / 347VAC, PF≥0.96 / 400VAC, PF≥0.95 / 480VAC at full load					
	POWER FACTOR (Typ.)	(Please refer to "Power Factor Characteris		0.937 400 VAC at full load				
		THD< 10% @ 347VAC> 80% loading	no section,					
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DIS	STORTION (THD)" section)					
INPUT	EFFICIENCY (Turn)	95.5%	, , ,	06%				
	AC CURRENT (Typ.)	3.15A / 347VAC 2.28A / 480VAC	96%	96%				
		COLD START 40A(twidth=1850µs measured	(at 50% Insaly) at 490\/AC; Dor NEMA 440					
	INRUSH CURRENT(Typ.)	COLD START 40A(twidth - 1850)//S MEASURE	at 50 /6 Ipeak) at 400 VAC, FEF INEIVIA 4 IU					
	MAX. NO. of PSUs on	4 Unit for 30A type B circuit breaker / 8 un	it for 30A type C circuit breaker at 480VAC					
	CIRCUIT BREAKER	<0.75mA / 480VAC						
	LEAKAGE CURRENT	<0.75MA7480VAC						
	STANDBY POWER CONSUMPTION	Standby power consumption <2W for AB-Type	e(Dimming OFF)					
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed						
PROTECTION	OVER VOLTAGE	400 ~ 425V 250 ~ 270V 190 ~ 205V						
		Shut down output voltage, re-power on to recovery						
	OVER TEMPERATURE	Shut down output voltage, re-power on to	•					
	WORKING TEMP.	Tcase=-40 \sim +90 $^{\circ}$ C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+90 $^{\circ}$ C						
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
LINVINCINILINI	STORAGE TEMP., HUMIDITY	-40 \sim +80 $^{\circ}$ C, 10 \sim 95% RH non-condensir	ng					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for	72min. each along X, Y, Z axes					
	SAFETY STANDARDS	UL8750(type"HL"), CAN/CSA C22.2 NO. 250. 13-17, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN6238-CCC GB19510.1,GB19510.14; EAC TP TC 004, IP67 approved						
	DALISTANDARDS	Compare to IEC62386-101.102.207 for DA-Type only (Device type 6, DT6)						
		I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:1.8KVAC						
		I/P-O/P:3KVAC I/P-FG:2KVAC O/P						
	WITHSTAND VOLTAGE ISOLATION RESISTANCE		-FG:1.8KVAC					
	WITHSTAND VOLTAGE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5	-FG:1.8KVAC					
	WITHSTAND VOLTAGE		-FG:1.8KVAC 00VDC / 25°C / 70% RH	Test Level/Note				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020	-FG:1.8KVAC 00VDC / 25°C / 70% RH Standard	Test Level/Note				
	WITHSTAND VOLTAGE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743					
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter	-FG:1.8KVAC 00VDC / 25°C / 70% RH Standard					
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743					
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3	 Class C @load≥50%				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3	 Class C @load≥50%				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T 17743 , GB	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3 7625.1	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T 17743 , GB4 Parameter ESD Radiated	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3 7625.1 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T 17743 , GB1 Parameter ESD Radiated EFT/Burst	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3 7625.1 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T 17743 , GB/Parameter ESD Radiated EFT/Burst Surge	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3 7625.1 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 8KV/Line-Earth				
SAFETY & EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T 17743, GB/Parameter ESD Radiated EFT/Burst Surge Conducted	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3 7625.1 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 8KV/Line-Earth Level 2				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T 17743 , GB/Parameter ESD Radiated EFT/Burst Surge	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3 7625.1 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 8KV/Line-Earth Level 2 Level 4				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T 17743, GB/Parameter ESD Radiated EFT/Burst Surge Conducted	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3 7625.1 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 8KV/Line-Earth Level 2 Level 4				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T 17743, GB/Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3 7625.1 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 8KV/Line-Earth Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T 17743 , GBr Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	FG:1.8KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN55015(CISPR15)/GB/T 17743 BS EN/EN61000-3-2/GB17625.1 BS EN/EN61000-3-3 7625.1 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 8KV/Line-Earth Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods				

- 2. Please refer to "DRIVING METHODS OF LED MODULE".
- 3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 4. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
- 5. 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 6. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 80 °C or less.
- 7. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to
- 9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 10. To prevent any Abnormal operation. Please install with two-way switch to AC input.
- 11. For A/AB type need to consider build in using to comply with Type HL application.



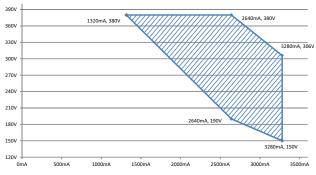
■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

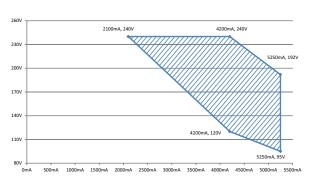
※ I-V Operating Area

O HVGC-1000-L



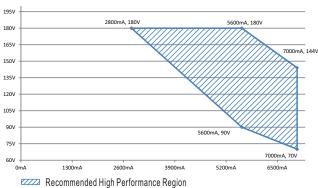
Recommended High Performance Region

O HVGC-1000-M



Recommended High Performance Region

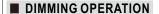
○ HVGC-1000-H

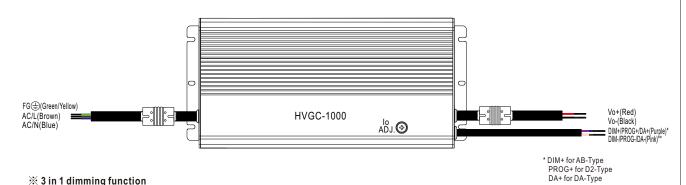


Recommended high Performance Region

**DIM- for AB-Type PROG- for D2-Type DA- for DA-Type

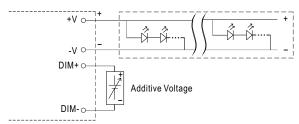






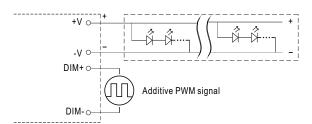
3 in 1 dimming function

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: $100\mu A$ (typ.)
- O Applying additive 0 ~ 10VDC



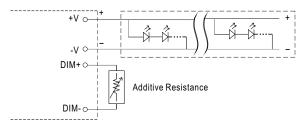
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

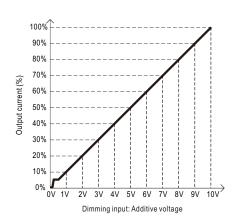


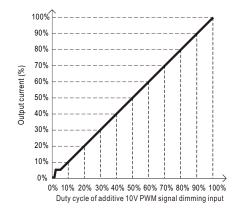
"DO NOT connect "DIM- to -V"

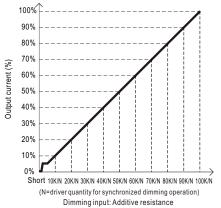
Applying additive resistance:



"DO NOT connect "DIM- to -V"







Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

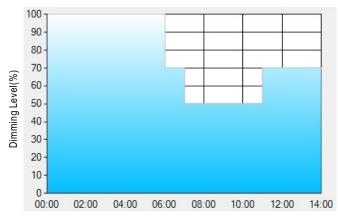
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



X Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex: O D01-Type: the profile recommended for residential lighting



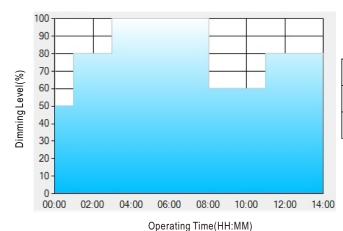
Set up for D01-Type in Smart timer dimming software program:

	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

- $\hbox{\ensuremath{}^{**}: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.}}$
 - Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:
- [1] The power supply will switch to the constant current level at 100% starting from 6:00pm.
- [2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: O D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

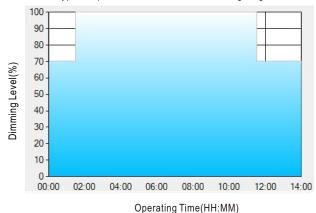
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:

- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
- [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3	T4
TIME**	18:00	20:00	24:00	04:00
LEVEL**	100%	75%	50%	25%

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

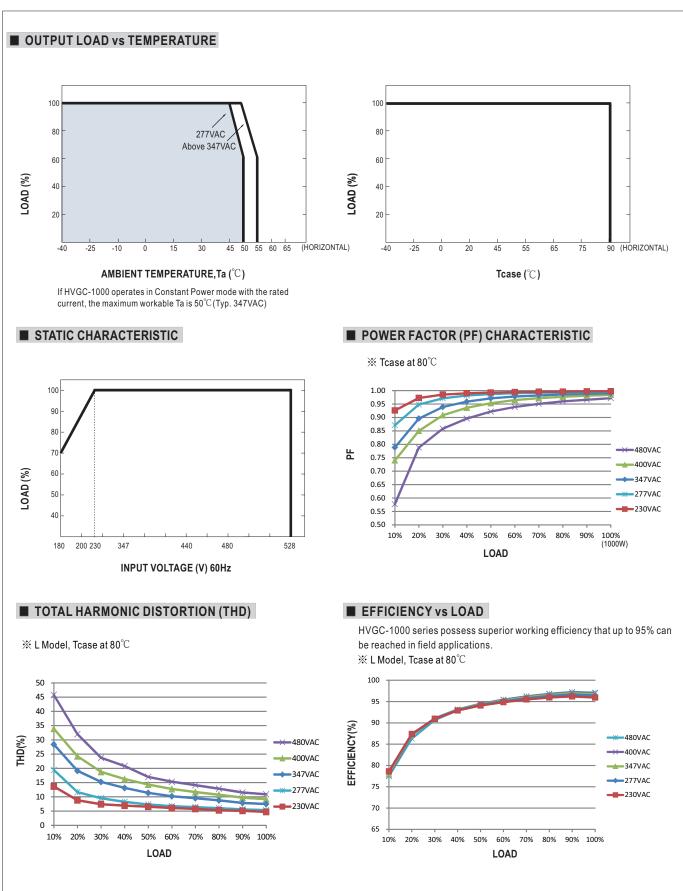
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.

※ DALI interface(primary side; for DA-Type)

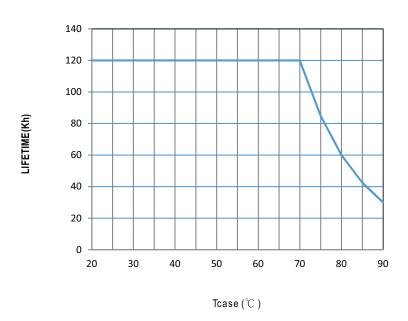
- · Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.







■ LIFE TIME



■ MECHANICAL SPECIFICATION

Cable information

Type	Input cable	Output cable	Dimming cable	AUX cable
АВ	SOOW 17AWG×3C & H07RN-F 3×1.0mm ²	SOOW 17AWG×2C & H07RN-F 2×1.0mm ²	SJOW 17AWG×2C & H05RN-F 2×1.0mm ²	SJOW 17AWG×2C & H05RN-F 2×1.0mm ²
D2	SOOW 17AWG×3C & H07RN-F 3×1.0mm ²	SOOW 17AWG×2C & H07RN-F 2×1.0mm ²	SJOW 17AWG×2C & H05RN-F 2×1.0mm ²	SJOW 17AWG×2C & H05RN-F 2×1.0mm ²
Dx	SOOW 17AWG×3C & H07RN-F 3×1.0mm ²	SOOW 17AWG×2C & H07RN-F 2×1.0mm ²		SJOW 17AWG×2C & H05RN-F 2×1.0mm ²
DA	SOOW 17AWG×3C & H07RN-F 3×1.0mm ²	SOOW 17AWG×2C & H07RN-F 2×1.0mm ²	SJOW 17AWG×2C & H05RN-F 2×1.0mm ²	SJOW 17AWG×2C & H05RN-F 2×1.0mm ²



