



















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.

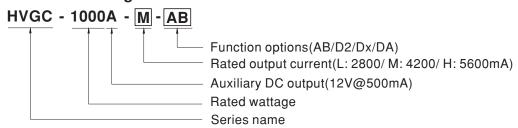
GTIN CODE

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 $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$ 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

■ Model Encoding



Туре	IP Level	Function	Note
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
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

File Name:HVGC-1000-SPEC 2022-10-05













SPECIFICATION

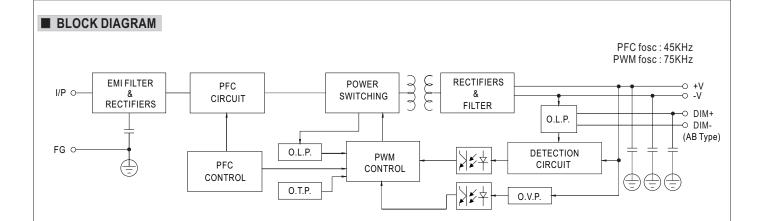
MODEL		HVGC-1000A-L-	HVGC-1000A-M-	HVGC-1000A-H-			
	RATED CURRENT	2800mA	4200mA	5600mA			
	RATED POWER	1003.2W	1008W	1008W			
ОИТРИТ	CONSTANT CURRENT REGION Note.2		95 ~ 240V	70 ~ 180V			
	FULL POWER CURRENT RANGE		4200~5250mA	5600~7000mA			
	OPEN CIRCUIT VOLTAGE (max.)		250V	190V			
	CURRENT ADJ. RANGE	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					
	VOLTAGE RANGE Note.3	180 ~ 528VAC					
	VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	DOMED EACTOR (T)	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.)	OR (Typ.) (Please refer to "Power Factor Characteristic" section)					
		THD< 10% @ 347VAC> 80% loading					
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)					
NPUT	EFFICIENCY (Typ.)	95.5% 96% 96%					
	AC CURRENT (Typ.)	3.15A / 347VAC 2.28A / 480VAC	3070	30 /6			
	() ()		ed at 50% Ipeak) at 480VAC; Per NEMA 410				
	INRUSH CURRENT(Typ.)	COLD START 40A(twidth=1650µs fileasure	ed at 50% ipeak) at 400 VAC, Pel NEIVIA 4 10				
	MAX. NO. of PSUs on	4 Unit for 30A type B circuit breaker / 8 unit for 30A type C circuit breaker at 480VAC					
	CIRCUIT BREAKER						
	LEAKAGE CURRENT	<0.75mA / 480VAC					
	STANDBY	Standby power consumption <2W for AB-Typ	pe(Dimming OFF)				
	POWER CONSUMPTION	.,,,	(g · · /				
	SHORT CIRCUIT	Constant current limiting, recovers auton	natically after fault condition is removed				
		400 ~ 425V 250 ~ 270V 190 ~ 205V					
PROTECTION	OVER VOLTAGE	Shut down output voltage, re-power on to recovery					
	OVER TEMPERATURE	Shut down output voltage, re-power on to	<u> </u>				
	WORKING TEMP.		TPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	,	TOT EOND VS TEIM ETATIONE Section)				
		Tcase=+90°C					
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
-	STORAGE TEMP., HUMIDITY	-40 ~ +80 °C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	CAFETY CTANDADDC	UL8750(type"HL"), CAN/CSA C22.2 NO. 250. 13-17, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384;					
	SAFETY STANDARDS	CCC GB19510.1,GB19510.14; EAC TP TC 004, IP67 approved					
	DALI STANDARDS	Compare to IEC62386-101.102.207 for DA-Type only (Device type 6, DT6)					
	DALIGIANDANDO	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:1.8KVAC					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/F	P-FG:1.8KVAC				
	WITHSTAND VOLTAGE						
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms /					
	WITHSTAND VOLTAGE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020	500VDC / 25°C / 70% RH	Test Level/Note			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter	500VDC / 25°C / 70% RH Standard	Test Level/Note			
	WITHSTAND VOLTAGE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted	500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15)/GB/T17743				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743				
SAFETY &	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1	 Class C @load≥50%			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625	 Class C @load≥50%			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and Parameter	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard	 Class C @load≥50% 			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and Parameter ESD	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard BS EN/EN61000-4-2	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 / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and Parameter ESD Radiated	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 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	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and Parameter ESD Radiated EFT/Burst	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN561000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 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 EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and Parameter ESD Radiated EFT/Burst Surge	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN561000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 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			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and Parameter ESD Radiated EFT/Burst Surge Conducted	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard 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 / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and Parameter ESD Radiated EFT/Burst Surge	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN561000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 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 / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and Parameter ESD Radiated EFT/Burst Surge Conducted	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard 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 >95% dip 0.5 periods, 30% dip 25 period			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of the conducted ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	Standard	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 period >95% interruptions 250 periods			
EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8	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 period >95% interruptions 250 periods			
EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of the conducted Radiated ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H)	Standard	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 period >95% interruptions 250 periods			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H) 4.2Kg;4pcs/17.8Kg/1.16CUFT	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 BS EN/EN61000-4-11 Icore) ; 68.4K hrs min. MIL-HDBK-217F (25	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 C)			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H) 4.2Kg;4pcs/17.8Kg/1.16CUFT Ity mentioned are measured at 347VAC in	Standard	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 C)			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING N	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H) 4.2Kg;4pcs/17.8Kg/1.16CUFT Iy mentioned are measured at 347VAC intertup 1000 METHODS OF LED MODULE".	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 Icore) ; 68.4K hrs min. MIL-HDBK-217F (25 ICORD MIL-HDBK	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 Self interruptions 250 periods C) Perature.			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING M 3. De-rating may be needed u	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and GParameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H) 4.2Kg;4pcs/17.8Kg/1.16CUFT by mentioned are measured at 347VAC intertook of the properties of the prope	Standard	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 period >95% interruptions 250 periods C) Perature.			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING M 3. De-rating may be needed u 4. Length of set up time is me.	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of the conducted BS EN/EN61547, CCC GB/T17743 and of the conducted BS EN/EN61547, CCC GB/T17743 and of the conducted EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H) 4.2Kg;4pcs/17.8Kg/1.16CUFT Iy mentioned are measured at 347VAC in the conducted of the conducted are measured at 347VAC in the conducted of the condu	Standard	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 period >95% interruptions 250 periods C) perature. tails. he set up time.			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING N 3. De-rating may be needed u 4. Length of set up time is me. 5. The driver is considered as	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H) 4.2Kg;4pcs/17.8Kg/1.16CUFT I/y mentioned are measured at 347VAC in I/ETHODS OF LED MODULE". Inder low input voltages. Please refer to "assured at first cold start. Turning ON/OFi a component that will be operated in cor	Standard	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 period >95% interruptions 250 periods °C) perature. ttails. the set up time. erformance will be affected by the			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING M 3. De-rating may be needed u 4. Length of set up time is me 5. The driver is considered as complete installation, the fin	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H) 4.2Kg;4pcs/17.8Kg/1.16CUFT by mentioned are measured at 347VAC in Interruption in Interru	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-11 Icore); 68.4K hrs min. MIL-HDBK-217F (25 Input, rated current and 25°C of ambient templets of the power supply may lead to increase of the own of the power supply may lead to increase of the own of the complete installation with final equipment. Since EMC pulify EMC Directive on the complete installation	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 period >95% interruptions 250 periods *C) perature. stails. the set up time. erformance will be affected by the in again.			
SAFETY & EMC OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING M 3. De-rating may be needed u 4. Length of set up time is me 5. The driver is considered as complete installation, the fin 6. This series meets the typica	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H) 4.2Kg;4pcs/17.8Kg/1.16CUFT by mentioned are measured at 347VAC in VETHODS OF LED MODULE*. Inder low input voltages. Please refer to "assured at first cold start. Turning ON/OF1 a component that will be operated in coral equipment manufacturers must re-quait life expectancy of >50,000 hours of operated.	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-1 Icore); 68.4K hrs min. MIL-HDBK-217F (25) Input, rated current and 25°C of ambient templets of the complete installation of th	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 period >95% interruptions 250 periods *C) perature. stails. the set up time. erformance will be affected by the in again.			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING M 3. De-rating may be needed u 4. Length of set up time is me. 5. The driver is considered as complete installation, the fin 6. This series meets the typica 7. Please refer to the warranty	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TPTC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H) 4.2Kg;4pcs/17.8Kg/1.16CUFT ly mentioned are measured at 347VAC intertional intertion of the properties	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard 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 BS EN/EN61000-4-1 Idore); 68.4K hrs min. MIL-HDBK-217F (25	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 °C) perature. trails. he set up time. erformance will be affected by the n again. TMP, per DLC), is about 80°C or less.			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING M 3. De-rating may be needed u 4. Length of set up time is me 5. The driver is considered as complete installation, the fin 6. This series meets the typica 7. Please refer to the warranty 8. To fulfill requirements of the	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TPTC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 682.8K hrs min. Telcordia SR-332(Bel 310*144*48.5mm (L*W*H) 4.2Kg;4pcs/17.8Kg/1.16CUFT ly mentioned are measured at 347VAC intertional intertion of the properties	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-1 Icore); 68.4K hrs min. MIL-HDBK-217F (25) Input, rated current and 25°C of ambient templets of the complete installation of th	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 °C) perature. trails. he set up time. erformance will be affected by the n again. TMP, per DLC), is about 80°C or less.			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING M 3. De-rating may be needed u 4. Length of set up time is me 5. The driver is considered as complete installation, the fin 6. This series meets the typica 7. Please refer to the warranty 8. To fulfill requirements of the the mains.	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of the conducted of the co	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard 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 BS EN/EN61000-4-1 Idore); 68.4K hrs min. MIL-HDBK-217F (25	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 °C) perature. tails. the set up time. terformance will be affected by the n again. TMP, per DLC), is about 80°C or less. witch without permanently connected to			
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING N 3. De-rating may be needed u 4. Length of set up time is me. 5. The driver is considered as complete installation, the fin 6. This series meets the typica 7. Please refer to the warranty 8. To fulfill requirements of the the mains. 9. The ambient temperature de	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and of the conducted of the co	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard 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 BS EN/EN61000-4-6 BS EN/EN61000-4-11 Icore); 68.4K hrs min. MIL-HDBK-217F (25 mput, rated current and 25°C of ambient temporary of the power supply may lead to increase	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 period>95% interruptions 250 periods °C) perature. tails. the set up time. terformance will be affected by the n again. TMP, per DLC), is about 80°C or less. witch without permanently connected to			
OTHERS	EMC EMISSION EMC EMISSION EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING N 3. De-rating may be needed u 4. Length of set up time is me. 5. The driver is considered as complete installation, the fin 6. This series meets the typica 7. Please refer to the warranty 8. To fulfill requirements of the the mains. 9. The ambient temperature de 10.To prevent any Abnormal of	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / FCC Part 15 class B, EAC TP TC 020 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547, CCC GB/T17743 and results	Standard BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN55015(CISPR15)/GB/T17743 BS EN/EN61000-3-2/GB/T17625.1 BS EN/EN61000-3-3 GB17625 Standard 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 BS EN/EN61000-4-6 BS EN/EN61000-4-11 Icore); 68.4K hrs min. MIL-HDBK-217F (25 mput, rated current and 25°C of ambient temporary of the power supply may lead to increase	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 period >95% interruptions 250 periods *C) perature. tails. the set up time. terformance will be affected by the in again. TMP, per DLC), is about 80 °C or less. witch without permanently connected to be reating altitude higher than 2000m(6500t)			

File Name:HVGC-1000-SPEC 2022-10-05





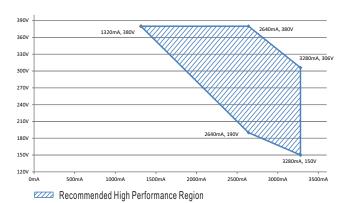




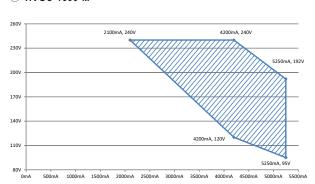
■ DRIVING METHODS OF LED MODULE

※ I-V Operating Area

O HVGC-1000-L

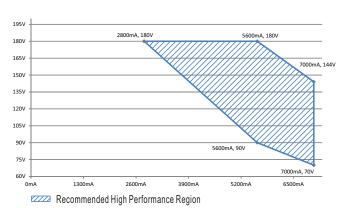


O HVGC-1000-M



Recommended High Performance Region

○ HVGC-1000-H



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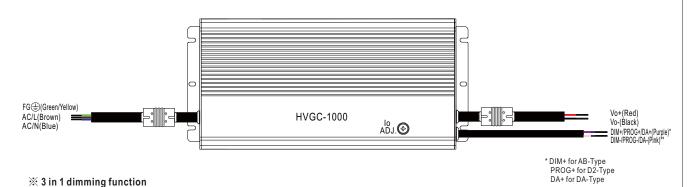


**DIM- for AB-Type PROG- for D2-Type

DA- for DA-Type

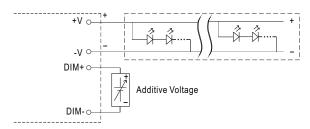






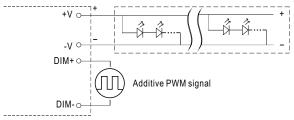
imes 3 in 1 dimming function

- · 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



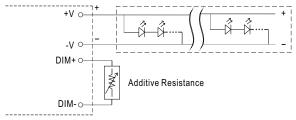
"DO NOT connect "DIM- to -V"

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

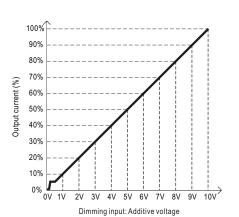


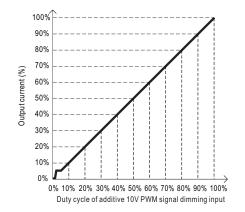
"DO NOT connect "DIM- to -V"

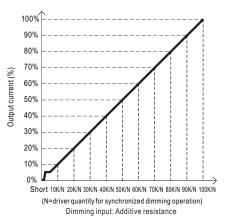
O Applying additive resistance:



"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 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.

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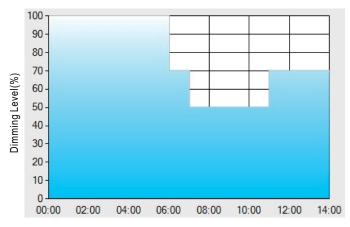




Smart timer dimming function (for Dxx-Type by User definition)

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: OD01-Type: the profile recommended for residential lighting



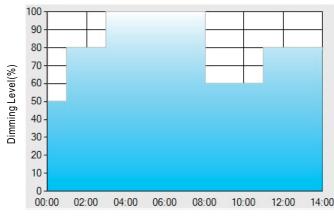
Set up for D01-Type in Smart timer dimming software program:

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

Operating Time(HH:MM)

- **: 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%

Operating Time(HH:MM)

**: 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.

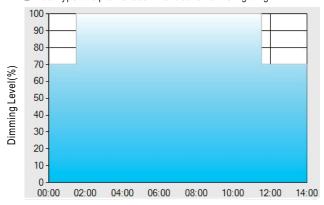








Ex: O D03-Type: the profile recommended for tunnel lighting



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%

Operating Time(HH:MM)

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.

M 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.

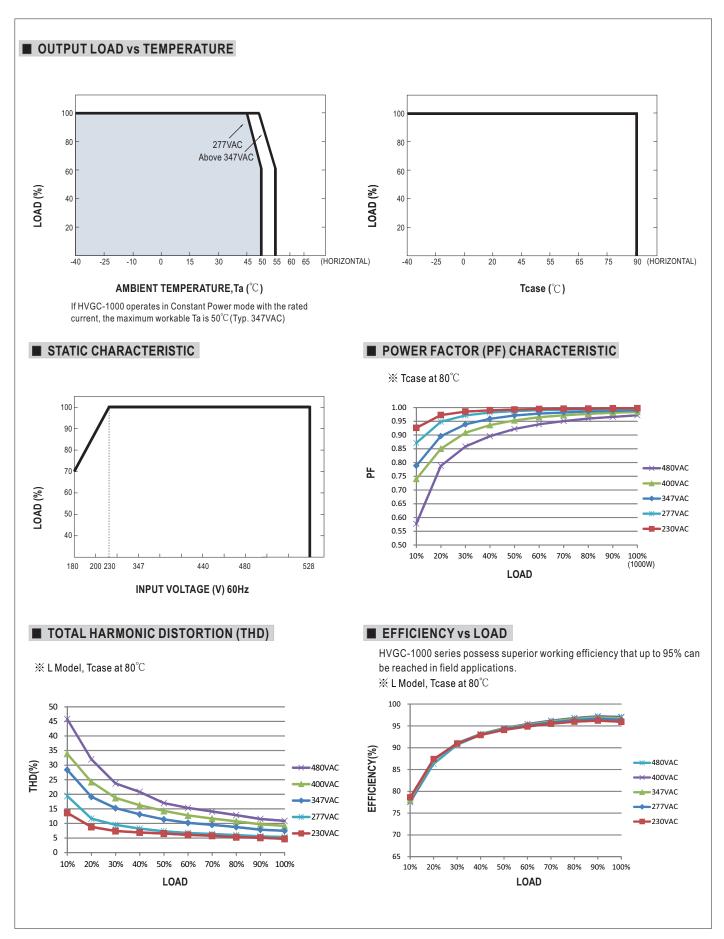






^{**:} TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.





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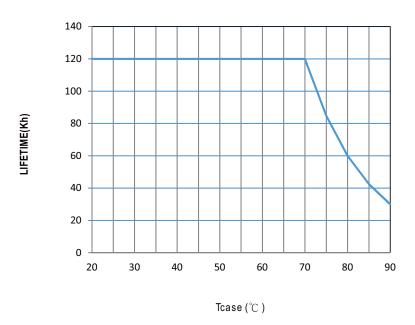








■ LIFE TIME



■ MECHANICAL SPECIFICATION

Cable information

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

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