

DH080 Series

80W Single Output LED Driver



■ Features

- Constant voltage and current output
- Universal AC input 100~305VAC
- Built-in active PFC function
- High efficiency
- Output protections: Short circuit/Over voltage/Over load
- Fixed derating-cutoff type temperature protection
- Cooling by free air convection
- Digital, analog or DALI control dimming function
- Suitable for inside of the outdoor LED luminaries
- IP65 with Vo/Io adjusting screws, IP67 without Vo/Io adjusting screws
- Class 2 power unit
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp/wet locations











FC 1P65/67 8







General functions

Output Power	80W	Input Frequency	50/60Hz
Input Voltage Range	100~305Vac	Operating Temperature	-40°C~+60°C
Storage Temperature	-45°C~+85°C	Safety & EMC	UL8750, UL1310 Class 2, IEC61347, EN55015
Turn-on Delay Time	3.0S max.	Inrush Current	40A at 230Vac, Cold start
Over Temp Protection	Fixed derating-cutoff type temperature protection	Waterproof	IP65/IP67



■ Detailed Specification

TABLE 1:

Octobal	Model		DH080-054S150X-YY	DH080-048S160X-YY	DH080-036S220X-YY	DH080-024S330X-YY	DH080-020S400X-YY		
Voltage nums	DC Voltage		54Vdc	48Vdc	36Vdc	24Vdc	20Vdc		
Output Current Range O*1500mA O*1600mA O*2200mA O*300mA O*300mA Bipliming Current Range 10*100W rated output current LES9W rated output voltage) ************************************			33~54Vdc	29~48Vdc	22~36Vdc	15~24Vdc	12~20Vdc		
Dimming Current Range		Rated DC Current	1500mA	1600mA	2200mA	3300mA	4000mA		
Ripple and Noise		Current Range	0~1500mA	0~1600mA	0~2200mA	0~3300mA	0~4000mA		
Ripple and Nose		Dimming Current Range		10~100% rated or	utput current (≥50% rate	d output voltage)			
Current ADJ. Range none.3 900"1500mA 960"1600mA 1320"2200mA 1980"3300mA 2400"4000mA 1240"4000mA 1240"400mA 1240"40mA	Output	Ripple and Noise	200mVp-p	200mVp-p	200mVp-p	200mVp-p	150mVp-p		
Voltage Tolerance		Voltage ADJ. Range note.3	49~57Vdc	43~50Vdc	32~38Vdc	22~25Vdc	18~21Vdc		
Voltage Line Regulation 2.0.5% 2.		Current ADJ. Range note.3	900~1500mA	960~1600mA	1320~2200mA	1980~3300mA	2400~4000mA		
Notinge Load Regulation		Voltage Tolerance	±1%	±1%	±1%	±1%	±1.5%		
Efficiency 91% 91% 91% 91% 90.5% 90% 9		Voltage Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
Input Power Factor 0.97/230Vac 0.97/2		Voltage Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±1%		
Input AC Current 1.0A/10Vac, 0.5A/230Vac Leakage Current 4.0.75mA/230Vac; 40.5mA/120Vac Over Current Constant current limiting Short Circut Non-dimmer type: recover automatically at hiccup; Dimmer type: Short-circuit power ≤10W. Over Voltage Shut down at 140% Vo and latch off o/p voltage, re-power on to recover Over Voltage Shut down at 140% Vo and latch off o/p voltage, re-power on to recover Over Voltage Operating Humidity 20°95% RH, non-condensing Storage Humidity 10°30% RH Temperature Coefficient Vibration 10°300Hz, 1G, Period for 60min, each along X. Y. Z axes. Withstand Voltage I/P-OP: 3.75KVac; IP-FG: 1.56KVac/2.00KVac (remove discharge tube); O/P-FG: 2.00KVac Safety & EMC EMC Interference Compliance to ENS50015, ENS5022 (CISPR22) Class 8 EMC Cimison Compliance to ENS50015, ENS5022 (CISPR22) Class 8 EMC Immunity Compliance to ENS50013-2 Class C Cosylocad); EN61000-3-3 EMC Immunity Compliance to ENS50015, ENS5022 (CISPR22) Class 8 Authentication UL class 2/ CE/RoHS/REACH MTBF 374 k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F Input Over-voltage Dimensions (mm) 190-68×41.3 Max. Case Temp. Tc max=80°C Net Weight 0.94Kg/pcs 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. 3. Output voltage and current can be adjusted by internal potentiometer ("A" type only). 4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation. 5. Constant current operation region is within 60% "100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. Derating may be needed under low input voltages. Please check the Static Characteristics for more details. 7. Safety and EMC design refer to EN605088-1, subject		Efficiency	91%	91%	91%	90.5%	90%		
AC Current 1.0A/100/ac, 0.5A/230Vac; 4.05mA/120Vac; 4.075mA/230Vac; 4.05mA/120Vac; 4.075mA/230Vac; 4.05mA/120Vac; 4.075mA/230Vac; 4.05mA/120Vac; 4.05mA/120V	lanut	Power Factor	0.97/230Vac	0.97/230Vac	0.97/230Vac	0.97/230Vac	0.97/230Vac		
Over Current Constant current limiting Short Circuit Non-dimmer type: recover automatically at hiccup; Dimmer type: Short-circuit power s10W. Protection Tover Voltage Shut down at 140% vo and latch off o/p voltage, re-power on to recover Operating Humidity 20°95% RH, non-condensing Storage Humidity 10°95% RH Emperature Coefficient 10°300/KJ. 10°, Period for 60min, each along X. V. 2 axes. Withstand Voltage 10°90-09°, 375KVac; IP-FG: 1.56KVac/2.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance 10°00; IP-OP: 3.75KVac; IP-FG: 1.56KVac/2.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance 10°00; IP-GO; IP-FG: 1.00M Ohms/500Vdc/25°C/70′W RH EMC Interference Compliance to EMS5015, EMS5022 (CISPR22) Class B EMC Immunity Compliance to EMS50105, EMS5022 (CISPR22) Class B EMC Emission Compliance to EMS5000-3-2 Class C (250%load); EN61000-3-3 EMC Immunity Compliance to EM51000-3-2 Class C (250%load); EN61000-3-3 EMC Immunity Compliance to EM51000-3-2 Class C (250%load); EN61000-3-3 EMC Immunity Compliance to EM51000-3-2 Class C (250%load); EN61000-3-3 EMTBF 374k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F Input Over-voltage Can survive input over-voltage stress of 320Vac for 48 hours Dimensions (mm) 190-68-41.3 Max. Case Temp. 7c max=80°C Net Weight 0.94Kg/pcs 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. 3. Output voltage and current can be adjusted by internal potentiometer ("A" type only). 4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation. 5. Constant current operation region is within 60° "100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. Derating may be needed	input	AC Current	1.0A/100Vac, 0.5A/230	OVac					
Output Protection Short Circuit Non-dimmer type: recover automatically at hiccup; Dimmer type: Short-circuit power s10W. Over Voltage Shut down at 140% Vo and latch off o/p voltage, re-power on to recover Storage Humidity 20-95% RH. Tomperature Coefficient 20-95% RH. Withstand Voltage 10-90 (P-FG: 156KVac/Z-00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance 10-90, IP-FG: 1.96KVac/Z-00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance 20-p0, IP-FG: 1.96KVac/Z-00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance 20-p0, IP-FG: 1.90M Ohms/500Vdc/Z5°C/70% RH EMC Interference Compliance to ENS5015, ENS5022 (CISPR22) class 8 EMC Intermunity Compliance to ENS5010, ENS5022 (CISPR22) class 8 EMC Immunity Compliance to ENS61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, ENG1547, ENS5024 MTBF 374k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F Input Over-voltage Can survive input over-voltage stress of 320Vac for 48 hours Dimensions (mm) 190-68×41.3 Max: Case Temp. Tomax=80°C Net Weight 20-94Kg/Pcs 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. 3. Output Voltage and current can be adjusted by Internal potentiometer ("A" type only). 4. Tolerance: includes setu p tolerance, voltage line regulation and voltage load regulation. 5. Constant current operation region is within 60% "100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. Derating may b		Leakage Current	<0.75mA/230Vac; <0.5	mA/120Vac					
Soft Circuit Non-dimmer type: recover automatically at hiscorp; Dimmer type: Short-circuit power \$10W.		Over Current	Constant current limiti	ng					
Operating Humidity 20°95% RH, non-condensing		Short Circuit	Non-dimmer type: rec	over automatically at hice	cup; Dimmer type: Short	-circuit power ≤10W.			
Environmental Storage Humidity 10°95% RH Temperature Coefficient ±0.03%/°C (0°50°C) Vibration	Troccesion								
Emironemental Temperature Coefficient		Operating Humidity	Operating Humidity 20~95% RH, non-condensing						
Temperature Coefficient	Facility and a state	Storage Humidity	y 10~95% RH						
Withstand Voltage I/P-OP: 3.75KVac; IP-FG: 1.56KVac/2.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance IP-OP, IP-FG, O/P-FG: 1.00M Ohms/500Vdc/25°C/70% RH EMC Interference Compliance to EN55015, EN55022 (CISPR22) Class B EMC Emission Compliance to EN61000-3-2 Class C (250%load); EN61000-3-3 EMC Immunity Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN61547, EN55024 Authentication UL class 2/ CE/RoHS/REACH MTBF 374k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F Input Over-voltage Can survive input over-voltage stress of 320Vac for 48 hours Dimensions (mm) 190-68×41.3 Max. Case Temp. Tc max=80°C Net Weight 0.94Kg/pcs 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. 3. Output voltage and current can be adjusted by internal potentiometer ("A" type only). 4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation. 5. Constant current operation region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. Derating may be needed under low input voltages. Please check the Static Characteristics for more details. 7. Safety and EMC design refer to EN60598-1, subject 8750 (UL), CNS15233, GB7000.1, FCC part18. 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 9. The power supply 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.	Environmental	Temperature Coefficient ±0.03%/°C (0~50°C)							
Isolation Resistance IP-OP, IP-FG, O/P-FG: 100M Ohms/500Vdc/25°C/70% RH EMC Interference Compliance to ENS5015, ENS5022 (CISPR22) Class B EMC Emission Compliance to EN61000-3-2 Class C (250%load); EN61000-3-3 EMC Immunity Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN61547, EN55024 Authentication UL class 2/ CE/RoHS/REACH MTBF 374k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F Input Over-voltage Can survive input over-voltage stress of 320Vac for 48 hours Dimensions (mm) 190×68×41.3 Max. Case Temp. Tc max=80°C Net Weight 0.94Kg/pcs 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. 3. Output voltage and current can be adjusted by internal potentiometer ("A" type only). 4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation. 5. Constant current operation region is within 60% "100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. Derating may be needed under low input voltages. Please check the Static Characteristics for more details. 7. Safety and EMC design refer to EN60598-1, subject 8750 (UL), CNS15233, GB7000.1, FCC part18. 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 9. The power supply 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.		Vibration	10~300Hz, 1G, Period for 60min, each along X、Y、Z axes.						
Safety & EMC EMC Interference Compliance to EN55015, EN55022 (CISPR22) Class B EMC Emission Compliance to EN61000-3-2 Class C (≥50%load); EN61000-3-3 EMC Immunity Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN61547, EN55024 Authentication UL class 2/ CE/RoHS/REACH MTBF 374k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F Input Over-voltage Can survive input over-voltage stress of 320Vac for 48 hours Dimensions (mm) 190×68×41.3 Max. Case Temp. Tc max=80°C Net Weight 0.94Kg/pcs 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. 3. Output voltage and current can be adjusted by internal potentiometer ("A" type only). 4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation. 5. Constant current operation region is within 60% "100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. Derating may be needed under low input voltages. Please check the Static Characteristics for more details. 7. Safety and EMC design refer to EN60598-1		Withstand Voltage	I/P-OP: 3.75KVac; IP-FG: 1.56KVac/2.00KVac (remove discharge tube); O/P-FG: 2.00KVac						
EMC Emission Compliance to EN61000-3-2 Class C (250%load); EN61000-3-3 EMC Immunity Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN61547, EN55024 Authentication UL class 2 / CE/RoHS/REACH MTBF 374k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F Input Over-voltage Can survive input over-voltage stress of 320Vac for 48 hours Dimensions (mm) 190×68×41.3 Max. Case Temp. Tc max=80°C Net Weight 0.94kg/pcs 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. 3. Output voltage and current can be adjusted by internal potentiometer ("A" type only). 4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation. 5. Constant current operation region is within 60% "100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. Derating may be needed under low input voltages. Please check the Static Characteristics for more details. 7. Safety and EMC design refer to EN60598-1, subject 8750 (UL), CNS15233, GB7000.1, FCC part18. 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 9. The power supply 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.		Isolation Resistance	IP-OP, IP-FG, O/P-FG: 100M Ohms/500Vdc/25°C/70% RH						
EMC Immunity Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN61547, EN55024 Authentication UL class 2/ CE/RoHS/REACH MTBF 374k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F Input Over-voltage Can survive input over-voltage stress of 320Vac for 48 hours Dimensions (mm) 190×68×41.3 Max. Case Temp. To max=80°C Net Weight 0.94kg/pcs 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. 3. Output voltage and current can be adjusted by internal potentiometer ("A" type only). 4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation. 5. Constant current operation region is within 60% "100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. Derating may be needed under low input voltages. Please check the Static Characteristics for more details. 7. Safety and EMC design refer to EN60598-1, subject 8750 (UL), CNS15233, GB7000.1, FCC part18. 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 9. The power supply 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.	Safety & EMC	EMC Interference	Compliance to EN55015, EN55022 (CISPR22) Class B						
Authentication UL class 2/ CE/RoHS/REACH MTBF 374k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F Input Over-voltage Can survive input over-voltage stress of 320Vac for 48 hours Dimensions (mm) 190×68×41.3 Max. Case Temp. Tc max=80°C Net Weight 0.94Kg/pcs 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. 3. Output voltage and current can be adjusted by internal potentiometer ("A" type only). 4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation. 5. Constant current operation region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. Derating may be needed under low input voltages. Please check the Static Characteristics for more details. 7. Safety and EMC design refer to EN60598-1, subject 8750 (UL), CNS15233, GB7000.1, FCC part18. 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 9. The power supply 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.		EMC Emission	Compliance to EN61000-3-2 Class C (≥50%load); EN61000-3-3						
MTBF 374k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F Input Over-voltage Can survive input over-voltage stress of 320Vac for 48 hours Dimensions (mm) 190×68×41.3 Max. Case Temp. Tc max=80°C Net Weight 0.94Kg/pcs 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor. 3. Output voltage and current can be adjusted by internal potentiometer ("A" type only). 4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation. 5. Constant current operation region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. Derating may be needed under low input voltages. Please check the Static Characteristics for more details. 7. Safety and EMC design refer to EN60598-1, subject 8750 (UL), CNS15233, GB7000.1, FCC part18. 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 9. The power supply 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		EMC Immunity	Compliance to EN6100	0-4-2, 3, 4, 5, 6, 8, 11; EN	NV50204, EN61547, EN55	5024			
Others Input Over-voltage		Authentication	UL class 2/ CE/RoHS/R	EACH					
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TABLE 2:

Model		DH080-016S500X-YY	DH080-012S500X-YY	DH080-229S035X-YY	DH080-114S070X-YY	DH080-076S105X-YY		
DC Voltage		16Vdc	12Vdc	229Vdc	114Vdc	76Vdc		
_	Constant Current Operation Voltage note.5	10~16Vdc	8~12Vdc	138~229Vdc	69~114Vdc	46~76Vdc		
	Rated DC Current	5000mA	5000mA	350mA	700mA	1050mA		
	Current Range	0~5000mA	0~5000mA	0~350mA	0~700mA	0~1050mA		
	Dimming Current Range	10~100% rated output current (≥50% rated output voltage)						
Output	Ripple and Noise	150mVp-p	150mVp-p	2%Vo	2%Vo	2%Vo		
	Voltage ADJ. Range note.3	14~17Vdc	11~13Vdc	20~23Vdc	103~120Vdc	68~80Vdc		
	Current ADJ. Range note.3	3000~5000mA	3000~5000mA	210~350mA	420~700mA	630~1050mA		
	Voltage Tolerance	±1.5%	±1.5%	±1%	±1%	±1%		
	Voltage Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	Voltage Load Regulation	±1%	±1%	±0.5%	±0.5%	±0.5%		
	Efficiency	90%	90%	93%	92%	92%		
I married	Power Factor	0.97/230Vac	0.97/230Vac	0.97/230Vac	0.97/230Vac	0.97/230Vac		
Input	AC Current	1.0A/100Vac, 0.5A/230	OVac					
	Leakage Current	<0.75mA/230Vac; <0.5	mA/120Vac					
	Over Current	Constant current limiti	ng					
Output Protection	Short Circuit	Non-dimmer type: reco	over automatically at hic	cup; Dimmer type: Short	-circuit power ≤10W.			
Frotection	Over Voltage	Shut down at 140% Vo	and latch off o/p voltage	e, re-power on to recover	r			
	Operating Humidity	20~95% RH, non-conde	ensing					
	Storage Humidity	umidity 10~95% RH						
Environmental	Temperature Coefficient	rature Coefficient ±0.03%/°C (0~50°C)						
	Vibration	10~300Hz, 1G, Period	for 60min, each along X、	Y、Z axes.				
	Withstand Voltage	I/P-OP: 3.75KVac; IP-F0	G: 1.56KVac/2.00KVac (re	move discharge tube); O	/P-FG: 2.00KVac			
	Isolation Resistance	IP-OP, IP-FG, O/P-FG: 100M Ohms/500Vdc/25°C/70% RH						
Safety & EMC	EMC Interference	Compliance to EN55015, EN55022 (CISPR22) Class B						
	EMC Emission	ssion Compliance to EN61000-3-2 Class C (250%load); EN61000-3-3						
	EMC Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN61547, EN55024						
	Authentication	UL class 2/ CE/RoHS/REACH CE/RoHS/REACH						
	MTBF	374k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F						
Others	Input Over-voltage	ge Can survive input over-voltage stress of 320Vac for 48 hours						
Others	Dimensions (mm)	190×68×41.3						
	Max. Case Temp.	x. Case Temp. Tc max=80°C						
	Net Weight 0.94Kg/pcs							
	1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25 °C of ambient temperature.							
	2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.							
	3. Output voltage and current can be adjusted by internal potentiometer ("A" type only).							
	4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation.							
	5. Constant current operation region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.							
Note	6. Derating may be needed under low input voltages. Please check the Static Characteristics for more details.							
	7. Safety and EMC design refer to EN60598-1, subject 8750 (UL), CNS15233, GB7000.1, FCC part18.							
	8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.							
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	10. Canada (output voltage: 42-60V) : suitable for class 2 wiring method.							
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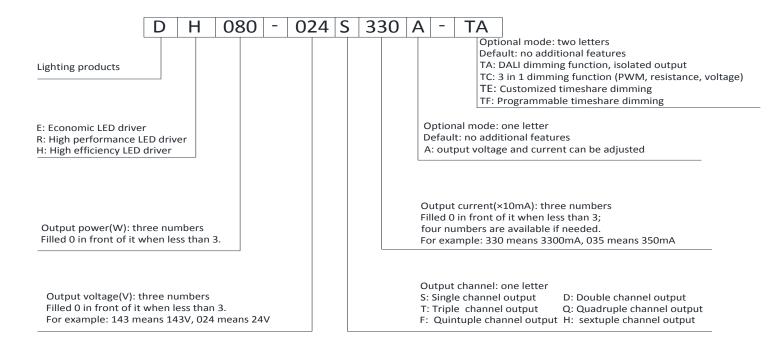


TABLE3:

Model		DH080-042S190X-YY	DH080-030S260X-YY					
	DC Voltage	42Vdc	30Vdc					
	Constant Current Operation Voltage note.5	26~42Vdc	18~30Vdc					
	Rated DC Current	1900mA	2600mA					
	Current Range	0~1900mA	0~2600mA					
	Dimming Current Range	10~100% rated output current (≥50% rated output voltage)						
Output	Ripple and Noise	200mVp-p	200mVp-p					
	Voltage ADJ. Range note.3	38~44Vdc	27~32Vdc					
	Current ADJ. Range note.3	1140~1900mA	1560~2600mA					
	Voltage Tolerance	±1%	±1%					
	Voltage Line Regulation	±0.5%	±0.5%					
	Voltage Load Regulation	±0.5%	±0.5%					
	Efficiency	91%	91%					
Input	Power Factor	0.97/230Vac	0.97/230Vac					
	AC Current	1.0A/100Vac, 0.5A/230Vac						
	Leakage Current	<0.75mA/230Vac; <0.5	mA/120Vac					
Output	Over Current	Constant current limiti	ng					
Protection	Short Circuit	Non-dimmer type: reco	over automatically at hice	cup; Dimmer type: Short	-circuit power ≤10W.			
	Over Voltage	Shut down at 140% Vo	and latch off o/p voltage	e, re-power on to recove	r			
	Operating Humidity 20~95% RH, non-condensing							
Environmental	Storage Humidity	e Humidity 10~95% RH						
Environmental	Temperature Coefficient ±0.03%/°C (0~50°C)							
	Vibration	10~300Hz, 1G, Period for 60min, each along X、Y、Z axes.						
	Withstand Voltage	I/P-OP: 3.75KVac; IP-FG: 1.56KVac/2.00KVac (remove discharge tube); O/P-FG: 2.00KVac						
	Isolation Resistance	IP-OP, IP-FG, O/P-FG: 100M Ohms/500Vdc/25°C/70% RH						
Safety & EMC	EMC Interference	Compliance to EN55015, EN55022 (CISPR22) Class B						
	EMC Emission	Compliance to EN61000-3-2 Class C (≥50%load); EN61000-3-3						
	EMC Immunity	Compliance to EN6100	0-4-2, 3, 4, 5, 6, 8, 11; EN	IV50204, EN61547, EN5	5024			
	Authentication	Authentication CE/RoHS/REACH						
	MTBF	374k Hrs at full load an	id 30°C ambient condition	ons per MIL-HDBK-217F				
Others	Input Over-voltage	Can survive input over-voltage stress of 320Vac for 48 hours						
	Dimensions (mm)	190×68×41.3						
	Max. Case Temp.	Tc max=80°C						
	Net Weight	0.94Kg/pcs						
	1. All parameters NOT specia	Illy mentioned are meas	ured at 230Vac input, rat	ed load and 25°C of amb	bient temperature.			
	2. Ripple & noise are measured: at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a $0.1\mu f$ & $47\mu f$ parallel capacitor.							
	3. Output voltage and current can be adjusted by internal potentiometer ("A" type only).							
	4. Tolerance: includes set up tolerance, voltage line regulation and voltage load regulation.							
Note	5. Constant current operation region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.							
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	10. Canada (output voltage: 42-60V) : suitable for class 2 wiring method.							

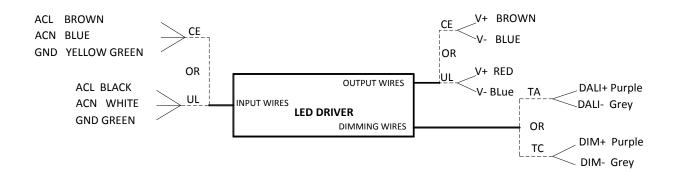


■ Part number code



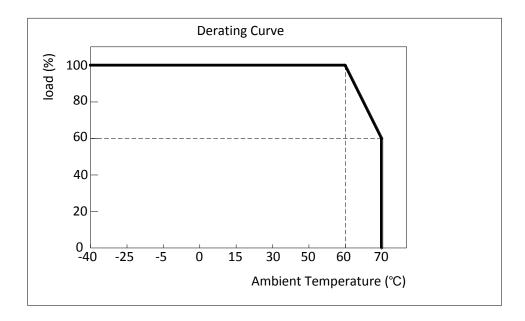
For example: DH080-024S330A-TA means: high efficiency LED driver; output power 80W; output voltage 24Vdc; output current 3300mA; single output; output voltage and current can be adjusted; with DALI dimming function and isolated output.

■ wiring diagram

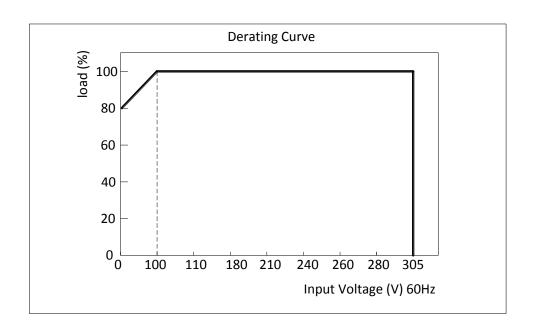




■ Derating Curve

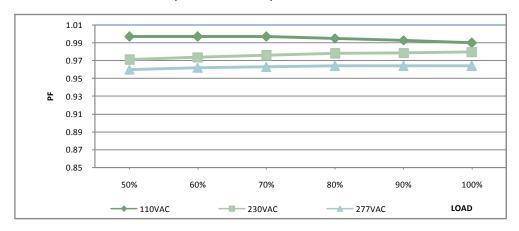


■ Static Characteristics

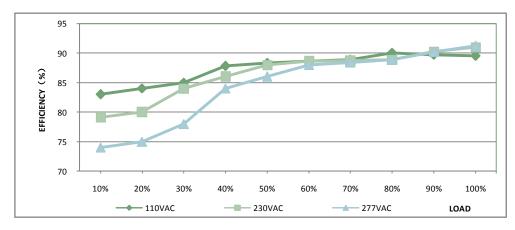




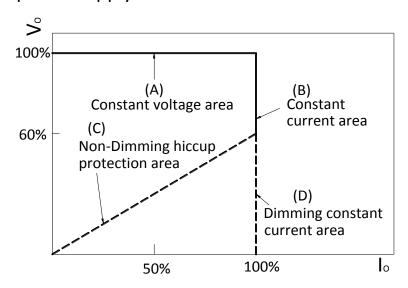
■ Power Factor Characteristic (DH080-036S220)



■ EFFICIENCY vs LOAD (DH080-036S220)

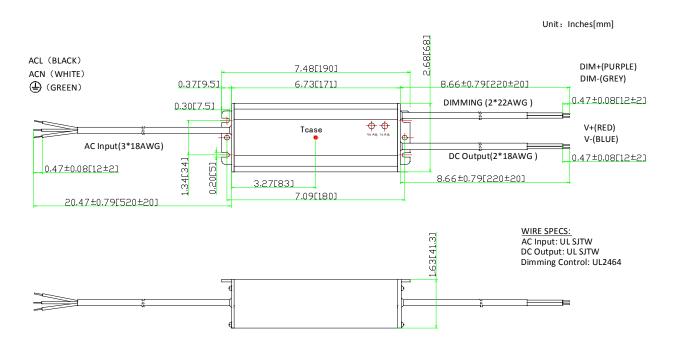


■ Typical LED power supply I-V curve





■ Mechanical Outline



- **XTcase:** Max. Case Temperature
- % Power's internal temperature is 10 % warmer than case temperature.
- *No dimming control wire if without dimming function.

■ "A" option

- a. Output voltage and current can be adjusted by internal potentiometer.
- b. IP65.
- c. These products shall be enclosed in the end product, when the unit provided with voltage and current adjustable holes.

■ "-TA" option: DALI dimming

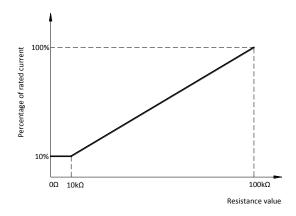
- a. DALI Testing Software: Please refer to www.impowercorp.com for downloading.
- b. Percentage of rated current: 10%~100%.
- c. "TA" version LED driver shall work with a DALI Master and DALI Master control software.



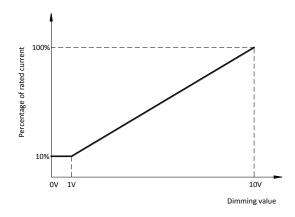


■ "-TC" option: 0-10V, resistance & PWM dimming

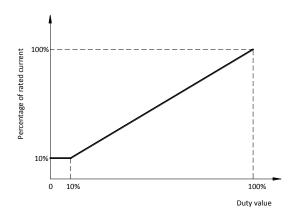
a. Reference resistance value for output current adjustment (Typical)



b. 0-10V dimming function for output current adjustment (Typical)



c. 10V PWM signal for output current adjustment (Typical): Frequency range: 200Hz~1.5KHz





Dimming control details:

Parameters		Minimum	Typical	Maximum
	Resistance	0kΩ	0-100kΩ	∞
Dimming Type	Voltage	-2V	0-10V	15V
	PWM(10%~100% f=200Hz~1.5KHz)	-2V	0-10V	15V
Dimming Current		-0.5mA	-	0.5mA

■ "-TE" option: Customized timeshare dimming.

- a. Different output current (10% 100% rate output current) can be set for different time periods.
- b. Maximum 4 sections is available. The minimum length is 0 to maximum 12 hours for each section.
- c. The parameter can't be changed after shipping.

■ "-TF" option: Programmable timeshare dimming.

- a. Output current is programmable with the range of 10%~100% of rated output current.
- b. Maximum 4 sections timeshare dimming is available. The minimum length is 0 to maximum 12 hours for each section.

For example:

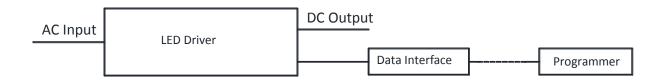
The first section: the time period is $0^{\sim}1h$, the output current is 40% of rated output current.

The second section: the time period is $\underline{1h^{\sim}4h}$, the output current is $\underline{100\%}$ of rated output current.

The third section: the time period is 4h~8h, the output current is 40% of rated output current.

The fourth section: the time period is 8h~12h, output current is 60% of rated output current.

- c. The parameters are set by a programmer.
- d. The data interface is waterproof.

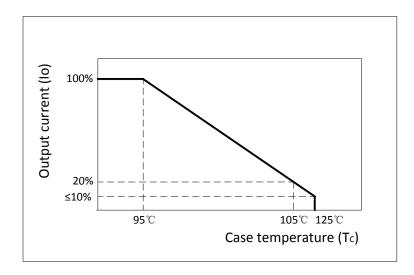


■ Input and output Dielectric strength

Isolation	Input Wires	Output Wires	Isolated Dimming Control Wires	Chassis
Input Wires	NA	3750	2000	1560/2000(remove discharge tube)
Output Wires	3750	NA	2000	2000
Isolated Dimming Control Wires	2000	2000	NA	2000
Chassis	1560/2000(remove discharge tube)	2000	2000	NA



■ Fixed derating-cutoff type temperature protection



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