

DR075 Series

75W Single Output LED Driver



- Constant voltage and current output
- Universal AC input 100~305VAC
- Built-in active PFC function
- 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	75W	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	65A at 230Vac, Cold start
Over Temp Protection	Fixed derating-cutoff type temperature protection	Waterproof	IP65/IP67



■ Detailed Specification

TABLE 1:

	Model	DR075-200S035X-YY	DR075-108S070X-YY	DR075-072S105X-YY	DR075-054S140X-YY	DR075-048S157X-YY		
DC Voltage		200Vdc	108Vdc	72Vdc	54Vdc	48Vdc		
_	Constant Current Operation Voltage note.5	120~200Vdc	65~108Vdc	44~72Vdc	32.4~54Vdc	28.8~48Vdc		
	Rated DC Current	350mA	700mA	1050mA	1400 mA	1570 mA		
	Current Range	0~350mA	0~700mA	0~1050mA	0~1400mA	0~1570mA		
	Dimming Current Range							
Output	Ripple and Noise	10%Vo	10%Vo	10%Vo	10%Vo	10%Vo		
	Voltage ADJ. Range note.3	180~210Vdc	97~113Vdc	65~76Vdc	49~57Vdc	43~50Vdc		
	Current ADJ. Range note.3	210~350mA	420~700mA	630~1050mA	840~1400mA	942~1570mA		
	Voltage Tolerance	±5%	±5%	±5%	±5%	±5%		
	Voltage Line Regulation	±1%	±1%	±1%	±1%	±1%		
	Voltage Load Regulation	±5%	±5%	±5%	±5%	±5%		
	Efficiency	91%	91%	91%	91%	91%		
	Power Factor	0.96/230Vac	0.96/230Vac	0.96/230Vac	0.96/230Vac	0.96/230Vac		
Input	AC Current	1.0A/100Vac, 0.5A/230Vac						
	Leakage Current <0.75mA/230Vac; <0.5mA/120Vac							
	Over Current	Constant current limiti	ng					
Output	Short Circuit Non-dimmer type: recover automatically at hiccup; Dimmer type: Short-circuit power ≤10W.							
Protection	Over Voltage	The state of the s						
	Operating Humidity 20~95% RH, non-condensing							
	Storage 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							
	EMC Emission Compliance to EN61000-3-2 Class C (≥50%load); EN61000-3-3							
	EMC Immunity							
	Authentication UL/TUV/CE/FCC/RoHS/CQC/REACH UL class 2/TUV/CE/FCC/RoHS/CQC/REACH							
	MTBF	377k Hrs at full load and 30°C ambient conditions per MIL-HDBK-217F						
	Input Over-voltage	•						
Others	Dimensions (mm)							
	Max. Case Temp.	Tc max=80°C						
	Net Weight							
	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							
Note	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.							
	10. Canada (output voltage: 42-60V) : suitable for class 2 wiring method.							

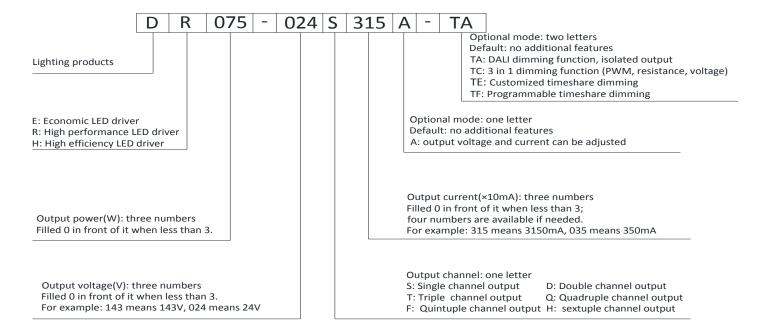


TABLE 2:

DC Voltage Service S		Model	DR075-036S210X-YY	DR075-030S245X-YY	DR075-024S315X-YY	DR075-020S375X-YY	DR075-042S176X-YY		
Voltage unas 22-36/vdc 18-34/vdc 18-34/vdc 12-20/vdc 26-42/vdc 27-24/vdc 2	DC Voltage		36Vdc	30Vdc	24Vdc	20Vdc	42Vdc		
Current Rampe	Output	·	22 ~36Vdc	18~30Vdc	15 ~24Vdc	12~20Vdc	26 ~42Vdc		
Dimming Current Range		Rated DC Current	2100 mA	2450 mA	3150 mA	3750 mA	1760 mA		
Ripple and Noise		Current Range	0~2100mA	0~2450mA	0~3150mA	0~3750mA	0~1760mA		
Ripple and Mose		Dimming Current Range	10~100% rated output current (≥50% rated output voltage)						
Current ADJ, Range Annual 1260*2100mA 1470*2450mA 1890*3150mA 2250*3750mA 1056*1760mA		Ripple and Noise	10%Vo	10%Vo	10%Vo	10%Vo	10%Vo		
Voltage Tolerance		Voltage ADJ. Range note.3	32~38Vdc	27~32Vdc	22~25Vdc	18~21Vdc	38~44Vdc		
Voltage Line Regulation		Current ADJ. Range note.3	1260~2100mA	1470~2450mA	1890~3150mA	2250~3750mA	1056~1760mA		
Notinge Load Regulation 15% 15		Voltage Tolerance	±5%	±5%	±5%	±5%	±5%		
Efficiency 90% 90% 89% 88% 90% 90% 90% 89% 88% 90%		Voltage Line Regulation	±1%	±1%	±1%	±1%	±1%		
Input Power factor 0.96/230Vac 0.96/2		Voltage Load Regulation	±5%	±5%	±5%	±5%	±5%		
Input AC Current 1.0A/100Vac, 0.5A/230Vac Leakage Current -0.75mA/230Vac; -0.5mA/120Vac Over Current Constant current limiting Short Circuit Non-dimmer type: recover automatically at hiccup; Dimmer type: Short-circuit power <10W. Protection 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 10°300/Hz, 1G, Period for 60min, each along X. Y. Z axes. Withstand Voltage 1/P-OP: 3.75KVac; IP-FG: 1.56KVac/2.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance 1P-OP, IP-FG, O/P-FG: 1.00M Ohms/S00Vac/25/2/Or/Sh RH EMC Emission Compliance to EN651000-3-2 Class S Coefficient EMC Immunity Compliance to EN651000-3-2 Class S Coefficient With Emperature Coefficient Others MTBF 377k 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) 200-60-41.3 Max. Case Temp. Tc max=80°C Net Weight 0.87Kg/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 potentionneter ("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. Safely and EMC design refer to EN605988-1, subject 8750 (UL), CNS15233, G87		Efficiency	90%	90%	89%	88%	90%		
AC Current 1.0A/100Vac, 0.5A/230Vac Constant current Constant current limiting	Innut	Power Factor	0.96/230Vac	0.96/230Vac	0.96/230Vac	0.96/230Vac	0.96/230Vac		
Output Protection Short Circuit 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 Operating Humidity 20°95% RH, non-condensing Storage Humidity 10°95% RH Temperature Coefficient 20.03%/"C (0°50"C) Vibration 10°300Hz, 1G, Period for Gómin, each along X. Y. 2 axes. Withstand Voltage 1P-OP; 1P-FG; 0/P-FG: 1.05K/bar/2.00K/vac (remove discharge tube); O/P-FG: 2.00K/vac Isolation Resistance 1P-OP; 1P-FG; 0/P-FG: 1.00M Ohms/500Vdc/25°C/70°N RH EMC Interference Compliance to EN\$5015, EN\$5022 (C19822) Class B EMC Emission Compliance to EN\$5015, EN\$5022 (C19822) Class B EMC Emission Compliance to EN\$5000-4-2, 3, 4, 5, 8, 8, 11; ENV50204, EN\$5194, EN\$5024 Authentication MTBF 377k 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) 20060×41.3 Max. Case Temp. To max=80°C Net Weight 0.87kg/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 EM60598-1, subject 8750 (UL), CNS15233, G87000-1, FCC part18. 8. Length of set up time is measured at a component that will be operated in combination with final equipment. Since EMC performa	прис	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 Over Voltage Storage Humidity 10-95% RH Temperature Coefficient 10-035%/°C (0~5°C') Vibration 10-300Hz, 16, Period for 60min, each along X. Y. Z axes. Withstand Voltage 1/P-OP: 3.75KVac; IP-FG: 1.56KVac/Z.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance IP-OP, IP-FG, 0/P-FG: 1.56KVac/Z.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance IP-OP, IP-FG, 0/P-FG: 1.56KVac/Z.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance IP-OP, IP-FG, 0/P-FG: 1.50KVac/Z.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance IP-OP, IP-FG, 0/P-FG: 1.50KVac/Z.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance IP-OP, IP-FG, 0/P-FG: 1.50M Ohms/500Vac/Z5°C/70% RH EMC Interference Compliance to ENS50115, RNS5022 (CISPR22) class B EMC Immunity Compliance to ENS50115, RNS5022 (CISPR22) class B Authentication Ucclass 2/TUV/CE/FCC/ReHS/CQC/REACH TUV/CE/RoHS MTBF 377k 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) 200-60-41.3 Max. Case Temp. Te max=80°C Net Weight 0.57Kg/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 potentionneter ("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 requirem		Leakage Current	<0.75mA/230Vac; <0.5	imA/120Vac					
Short Circuit Non-dimmer type: recover automatically at hiscorp; 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 Humidity 20°95% RH Temperature Coefficient \$0.03%/°C (0°50°C) Vibration 10°300Hz, 1G, Period for 60min, each along X. V. 2 axes. Withstand Voltage 1/P-OP; 3.75KVac; IP-FG: 1.56KVac/2.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance 1P-OP, IP-FG, O/P-FG: 1.00M Ohms/500Vdc/25°C/70% RH EMC Interference Compliance to ENS5015, ENS5022 (CISPR22) Class B EMC Emission Compliance to ENS5015, ENS5022 (CISPR22) Class B EMC Immunity Compliance to ENS0100-3-2 Class C (250%load); ENG1000-3-3 EMC Immunity Compliance to ENS0100-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN61547, ENS5024 MTBF 377K 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) 200-60-41.3 Max. Case Temp. Te max-80°C Net Weight 0.87Kg/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 part118. 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		Over Current	Over Current Constant current limiting						
Over Voltage Operating Humidity		Short Circuit	Short Circuit Non-dimmer type: recover automatically at hiccup; Dimmer type: Short-circuit power ≤10W.						
Environmental Storage Humidity 10°95% RH Temperature Coefficient 40.03%/°C (0°50°C) Vibration 10°300Hz, 16, Period for 60min, each along X. Y. Z axes. Withstand Voltage 1/P-0P: 3.75KVac; (P.FG: 1.56KVac/Z.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance IP-0P, IP-FG, O/P-FG: 100M Ohms/500Vdc/Z5°C/70% RH EMC Interference Compliance to ENS5015, ENS5022 (CISPR2) Class B EMC Emission Compliance to EN61000-3-2 Class C (250%load); EN61000-3-3 EMC Immunity Compliance to EN61000-3-2 Class C (250%load); EN61000-3-3 Authentication UL class 2/TUV/CE/FCC/RoHS/CQC/REACH TUV/CE/RoHS MTBF 377k 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) 200x60x41.3 Max. Case Temp. Tc max=80°C Net Weight 0.87Kg/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 EN66598-1, 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 installati		Over Voltage	Shut down at 140% Vo and latch off o/p voltage, re-power on to recover						
Environmental Temperature Coefficient ±0.03%/°C (0°50°C) Vibration 10°30Hz, 1G, Period for 60min, each along X. Y. Z axes. Withstand Voltage 1/P-OP: 3.75KVac; 1P-FG: 1.56KVac/2.00KVac (remove discharge tube); 0/P-FG: 2.00KVac Isolation Resistance 1P-OP, IP-FG, 0/P-FG: 100M Ohms/500Vdc/25°C/70% RH EMC Interference Compliance to ENS5015, ENS5022 (CISPR2) Class B EMC Interference Compliance to EN61000-3-2 Class C (250%load); EN61000-3-3 EMC Immunity 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 MTBF 377k 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) 200x60x41.3 Max. Case Temp. Tc max=80°C Net Weight 0.87kg/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 equipme		Operating Humidity	20~95% RH, non-cond	ensing					
Temperature Coefficient ±0.038%/°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 EMC Interference Compliance to ENS5015, ENS5022 (CISR22) Class B EMC Emission Compliance to EN61000-3-2 Class C (250%load); EN61000-3-3 EMC Immunity 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 TUV/CE/ROHS MTBF 377k 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) 200x60x41.3 Max. Case Temp. Tc max=80°C Net Weight 0.87Kg/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 equi	Environmental	Storage Humidity	torage Humidity 10~95% RH						
Withstand Voltage 1/P-OP: 3.75KVac; IP-FG: 1.56KVac/2.00KVac (remove discharge tube); O/P-FG: 2.00KVac Isolation Resistance IP-OP, IP-FG: 0.0P-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/TUV/CE/FCC/RoHS/CQC/REACH TUV/CE/RoHS MTBF 377k 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) 200x60×41.3 Max. Case Temp. Tc max=80°C Net Weight 0.87kg/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.	Liivii Oiliileillai	Temperature Coefficient ±0.03%/°C (0~50°C)							
Isolation Resistance IP-OP, IP-FG, O/P-FG: 100M Ohms/500Vdc/25°C/70% RH		Vibration	10~300Hz, 1G, Period for 60min, each along X、Y、Z axes.						
Safety & EMC Interference Compliance to ENS5015, ENS5022 (CISPR22) class 8 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/TUV/CE/FCC/RoHS/CQC/REACH TUV/CE/ROHS MTBF 377k 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) 200×60×41.3 Max. Case Temp. Tc max=80°C Net Weight 0.87kg/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 0.1 μf & 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, G87000.1, 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.		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/TUV/CE/FCC/RoHS/CQC/REACH TUV/CE/ROHS MTBF 377k 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) 200×60×41.3 Max. Case Temp. Tc max=80°C Net Weight 0.87kg/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	Resistance IP-OP, IP-FG, O/P-FG: 100M Ohms/500Vdc/25°C/70% RH						
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10. Canada (output voltage: 42-60V): suitable for class 2 wiring method.		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.							
· · · · · · · · · · · · · · · · · · ·		10. Canada (output voltage: 42-60V) : suitable for class 2 wiring method.							

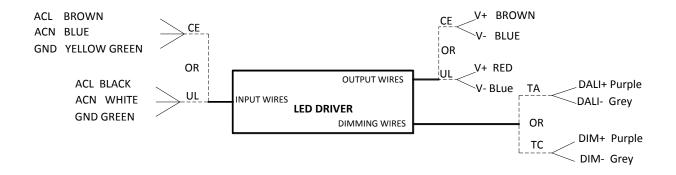


■ Part number code



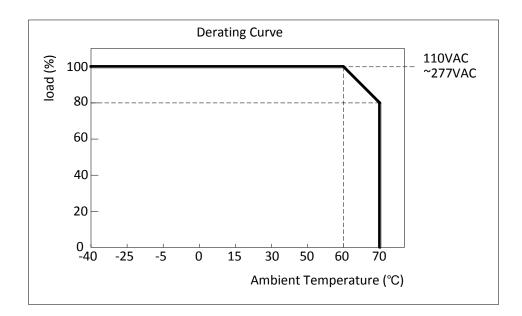
For example: DR075-024S315A-TA means: high performance LED driver; output power 75W; output voltage 24Vdc; output current 3150mA; single output; output voltage and current can be adjusted; with DALI dimming function and isolated output.

wiring diagram

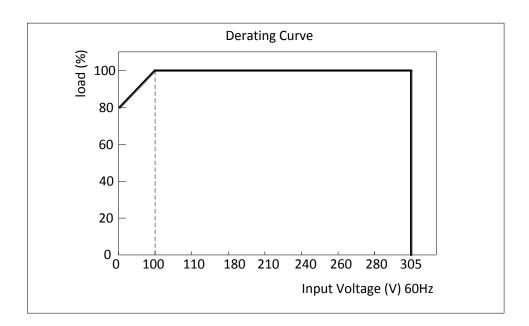




■ Derating Curve

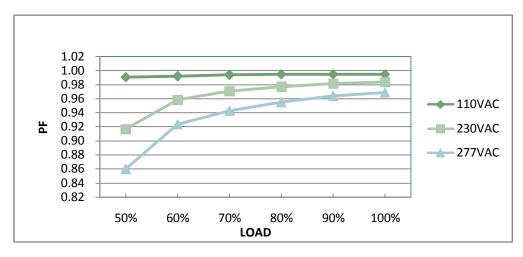


■ Static Characteristics

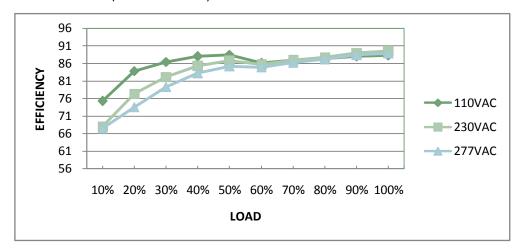




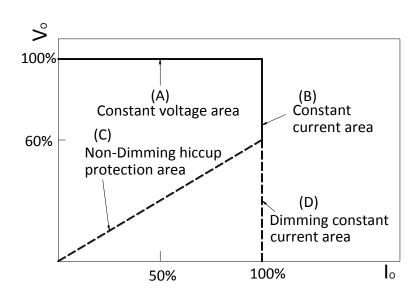
■ Power Factor Characteristic (DR075-024S315)



■ EFFICIENCY vs LOAD (DR075-024S315)

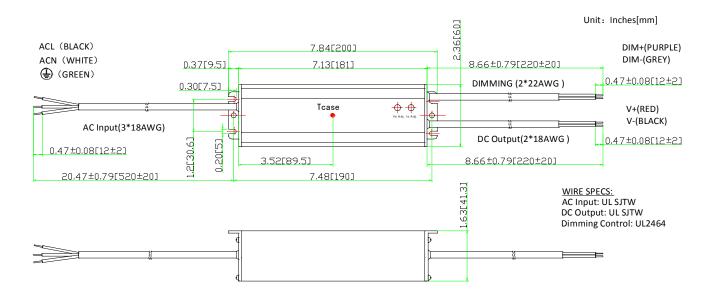


■ Typical LED power supply I-V curve





■ Mechanical Outline



- **XTcase:** Max. Case Temperature
- $\stackrel{\cdot}{\mathbb{X}}$ Power's internal temperature is 10 $^{\circ}\mathbb{C}$ warmer than case temperature.
- **X** 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

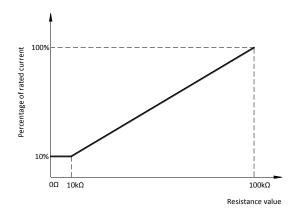
- a. DALI Testing Software: Please refer to www.impowercorp.com for downloading.
- b. Percentage of rated current: 10%~100%.
- c. "TA" version LED driver shall work with a DALI Master and DALI Master control software.



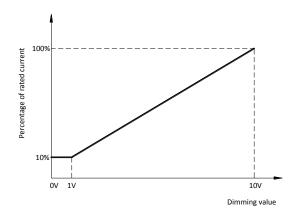


■ "-TC" option: 0-10V, resistance & PWM dimming

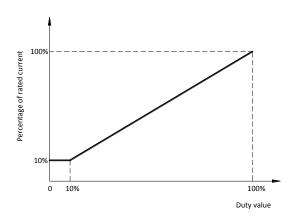
a. Reference resistance value for output current adjustment (Typical)



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
Dimming Type	Resistance	0kΩ	0-100kΩ	∞
	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:

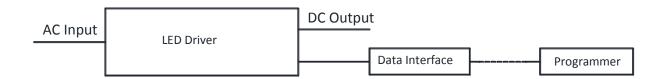
The first section: the time period is $0^{\sim}1h$, the output current is 40% of rated output current.

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.

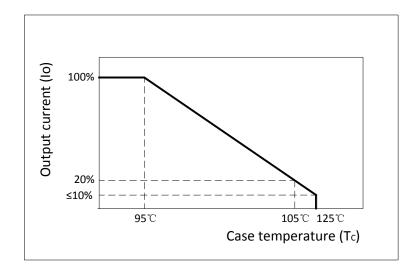


■ Input and output Dielectric strength

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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