

### ■ 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
- Digital, analog or DALI control dimming function
- Suitable for inside of the outdoor LED luminaires
- IP65 with Vo/Io adjusting screws, IP67 without Vo/Io adjusting screws
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp/wet locations
- Eight years warranty



IP65/67



### ■ General functions

|                      |   |                       |                           |
|----------------------|---|-----------------------|---------------------------|
| Output Power         | 200W  | Input Frequency       | 50/60Hz                   |
| Input Voltage Range  | 100~305Vac  | Operating Temperature | -40 ℃ ~+60 ℃              |
| Storage Temperature  | -45 ℃ ~+85 ℃                                      | Safety & EMC          | UL8750, IEC61347, EN55015 |
| Turn-on Delay Time   | 3.0S max.   | Inrush Current        | 50A at 230Vac, Cold start |
| Over Temp Protection | Fixed derating-cutoff type temperature protection | Waterproof            | IP65/IP67                 |

### ■ Detailed Specification

TABLE 1:

| Model             |  | DH200-048S420X-YY  | DH200-024S833X-YY | DH200-286S070X-YY | DH200-191S105X-YY | DH200-143S140X-YY |
|-------------------|--|--|-------------------|-------------------|-------------------|-------------------|
| Output            | DC Voltage   | 48Vdc  | 24Vdc             | 286Vdc            | 191Vdc            | 143Vdc            |
|                   | Constant Current Operation Voltage <small>note.5</small>   | 29~48Vdc   | 15~24Vdc          | 172~286Vdc        | 115~191Vdc        | 86~143Vdc         |
|                   | Rated DC Current   | 4200mA   | 8330mA            | 700mA             | 1050mA            | 1400mA            |
|                   | Current Range  | 0~4200mA   | 0~8330mA          | 0~700mA           | 0~1050mA          | 0~1400mA          |
|                   | Dimming Current Range  | 10~100% rated output current (≥50% rated output voltage)                                 |                   |                   |                   |                   |
|                   | Ripple and Noise   | 200mVp-p   | 150mVp-p          | 2%Vo              | 2%Vo              | 2%Vo              |
|                   | Voltage ADJ. Range <small>note.3</small>   | 43~50Vdc   | 22~25Vdc          | 257~300Vdc        | 172~201Vdc        | 129~150Vdc        |
|                   | Current ADJ. Range <small>note.3</small>   | 2100~4200mA  | 4165~8330mA       | 350~700mA         | 525~1050mA        | 700~1400mA        |
|                   | Voltage Tolerance  | ±1%  | ±1%               | ±1%               | ±1%               | ±1%               |
|                   | Voltage Line Regulation  | ±0.5%  | ±0.5%             | ±0.5%             | ±0.5%             | ±0.5%             |
|                   | Voltage Load Regulation  | ±0.5%  | ±0.5%             | ±0.5%             | ±0.5%             | ±0.5%             |
| Input             | Efficiency   | 94%  | 93.5%             | 93%               | 93%               | 93%               |
|                   | Power Factor   | 0.97/230Vac  | 0.97/230Vac       | 0.97/230Vac       | 0.97/230Vac       | 0.97/230Vac       |
|                   | AC Current   | 2.4A/100Vac, 1.2A/230Vac   |                   |                   |                   |                   |
|                   | Leakage Current  | <0.75mA/230Vac; <0.5mA/120Vac  |                   |                   |                   |                   |
| Output Protection | Over Current   | Constant current limiting  |                   |                   |                   |                   |
|                   | 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                   |                   |                   |                   |                   |
| Environmental     | Operating Humidity   | 20~95% RH, non-condensing  |                   |                   |                   |                   |
|                   | Storage Humidity   | 10~95% RH  |                   |                   |                   |                   |
|                   | Temperature Coefficient  | ±0.03%/℃ (0~50℃)   |                   |                   |                   |                   |
|                   | Vibration  | 10~300Hz, 1G, Period for 60min, each along X、Y、Z axes.                                   |                   |                   |                   |                   |
| Safety & EMC      | Withstand Voltage  | I/P-OP: 3.75KVdc; IP-FG: 1.56KVdc/2.00KVdc (remove discharge tube); O/P-FG: 2.00KVdc     |                   |                   |                   |                   |
|                   | Isolation Resistance   | IP-OP, IP-FG, O/P-FG: 100M Ohms/500Vdc/25℃/70% RH  |                   |                   |                   |                   |
|                   | 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                 |                   |                   |                   |                   |
| Others            | Authentication   | UL/TUV/FCC/CE/RoHS/CQC   |                   | TUV/CE/RoHS       |                   |                   |
|                   | MTBF   | 173k Hrs at full load and 30℃ ambient conditions per MIL-HDBK-217F                       |                   |                   |                   |                   |
|                   | Input Over-voltage   | Can survive input over-voltage stress of 320Vac for 48 hours                             |                   |                   |                   |                   |
|                   | Dimensions (mm)  | 249×68×40  |                   |                   |                   |                   |
|                   | Max. Case Temp.  | Tc max=80℃   |                   |                   |                   |                   |
|                   | Net Weight   | 1.20Kg/pcs   |                   |                   |                   |                   |
| Note              | 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ 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. |  |                   |                   |                   |                   |

TABLE 2:

| Model             |  | DH200-115S175X-YY  | DH200-096S210X-YY | DH200-081S245X-YY | DH200-072S280X-YY | DH200-064S315X-YY |
|-------------------|--|--|-------------------|-------------------|-------------------|-------------------|
| Output            | DC Voltage   | 115Vdc   | 96Vdc             | 81Vdc             | 72Vdc             | 64Vdc             |
|                   | Constant Current Operation Voltage <small>note.5</small>   | 69~115Vdc  | 58~96Vdc          | 49~81Vdc          | 44~72Vdc          | 58~64Vdc          |
|                   | Rated DC Current   | 1750mA   | 2100mA            | 2450mA            | 2800mA            | 3150mA            |
|                   | Current Range  | 0~1750mA   | 0~2100mA          | 0~2450mA          | 0~2800mA          | 0~3150mA          |
|                   | Dimming Current Range  | 10~100% rated output current (≥50% rated output voltage)                                 |                   |                   |                   |                   |
|                   | Ripple and Noise   | 2%Vo   | 2%Vo              | 2%Vo              | 2%Vo              | 2%Vo              |
|                   | Voltage ADJ. Range <small>note.3</small>   | 104~121Vdc   | 86~101Vdc         | 73~85Vdc          | 65~76Vdc          | 58~67Vdc          |
|                   | Current ADJ. Range <small>note.3</small>   | 875~1750mA   | 1050~2100mA       | 1225~2450mA       | 1400~2800mA       | 1575~3150mA       |
|                   | Voltage Tolerance  | ±1%  | ±1%               | ±1%               | ±1%               | ±1%               |
|                   | Voltage Line Regulation  | ±0.5%  | ±0.5%             | ±0.5%             | ±0.5%             | ±0.5%             |
|                   | Voltage Load Regulation  | ±0.5%  | ±0.5%             | ±0.5%             | ±0.5%             | ±0.5%             |
| Input             | Efficiency   | 93%  | 92%               | 92%               | 92%               | 92%               |
|                   | Power Factor   | 0.97/230Vac  | 0.97/230Vac       | 0.97/230Vac       | 0.97/230Vac       | 0.97/230Vac       |
|                   | AC Current   | 2.4A/100Vac, 1.2A/230Vac   |                   |                   |                   |                   |
|                   | Leakage Current  | <0.75mA/230Vac; <0.5mA/120Vac  |                   |                   |                   |                   |
| Output Protection | Over Current   | Constant current limiting  |                   |                   |                   |                   |
|                   | 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                   |                   |                   |                   |                   |
| Environmental     | Operating Humidity   | 20~95% RH, non-condensing  |                   |                   |                   |                   |
|                   | Storage Humidity   | 10~95% RH  |                   |                   |                   |                   |
|                   | Temperature Coefficient  | ±0.03%/℃ (0~50℃)   |                   |                   |                   |                   |
|                   | Vibration  | 10~300Hz, 1G, Period for 60min, each along X、Y、Z axes.                                   |                   |                   |                   |                   |
| Safety & EMC      | 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℃/70% RH  |                   |                   |                   |                   |
|                   | 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                 |                   |                   |                   |                   |
| Others            | Authentication   | TUV/CE/RoHS  |                   |                   |                   |                   |
|                   | MTBF   | 173k Hrs at full load and 30℃ ambient conditions per MIL-HDBK-217F                       |                   |                   |                   |                   |
|                   | Input Over-voltage   | Can survive input over-voltage stress of 320Vac for 48 hours                             |                   |                   |                   |                   |
|                   | Dimensions (mm)  | 249×68×40  |                   |                   |                   |                   |
|                   | Max. Case Temp.  | Tc max=80℃   |                   |                   |                   |                   |
|                   | Net Weight   | 1.20Kg/pcs   |                   |                   |                   |                   |
| Note              | 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ 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. |  |                   |                   |                   |                   |

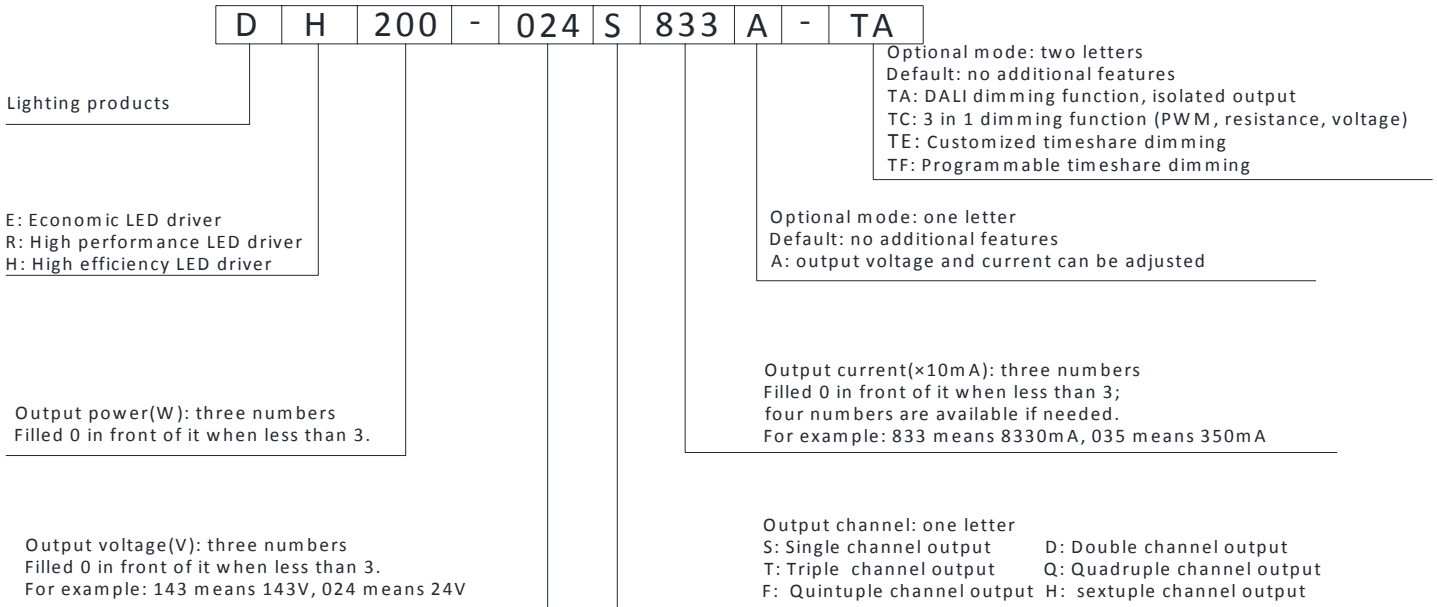
TABLE 3:

| Model             |  | DH200-058S350X-YY  | DH200-052S385X-YY | DH200-050S400X-YY | DH200-042S490X-YY | DH200-036S560X-YY |
|-------------------|--|--|-------------------|-------------------|-------------------|-------------------|
| Output            | DC Voltage   | 58Vdc  | 52Vdc             | 50Vdc             | 42Vdc             | 36Vdc             |
|                   | Constant Current Operation Voltage <small>note.5</small>   | 44~58Vdc   | 35~52Vdc          | 29~50Vdc          | 22~42Vdc          | 20~36Vdc          |
|                   | Rated DC Current   | 3500mA   | 3850mA            | 4000mA            | 4900mA            | 5600mA            |
|                   | Current Range  | 0~3500mA   | 0~3850mA          | 0~4000mA          | 0~4900mA          | 0~5600mA          |
|                   | Dimming Current Range  | 10~100% rated output current (≥50% rated output voltage)                                 |                   |                   |                   |                   |
|                   | Ripple and Noise   | 2%Vo   | 2%Vo              | 200mVp-p          | 200mVp-p          | 200mVp-p          |
|                   | Voltage ADJ. Range <small>note.3</small>   | 52~61Vdc   | 47~55Vdc          | 45~53Vdc          | 38~44Vdc          | 32~38Vdc          |
|                   | Current ADJ. Range <small>note.3</small>   | 1750~3500mA  | 1925~3850mA       | 2000~4000mA       | 2450~4900mA       | 2800~5600mA       |
|                   | Voltage Tolerance  | ±1%  | ±1%               | ±1%               | ±1%               | ±1%               |
|                   | Voltage Line Regulation  | ±0.5%  | ±0.5%             | ±0.5%             | ±0.5%             | ±0.5%             |
|                   | Voltage Load Regulation  | ±0.5%  | ±0.5%             | ±0.5%             | ±0.5%             | ±0.5%             |
| Input             | Efficiency   | 92%  | 92%               | 94%               | 94%               | 94%               |
|                   | Power Factor   | 0.97/230Vac  | 0.97/230Vac       | 0.97/230Vac       | 0.97/230Vac       | 0.97/230Vac       |
|                   | AC Current   | 2.4A/100Vac, 1.2A/230Vac   |                   |                   |                   |                   |
|                   | Leakage Current  | <0.75mA/230Vac; <0.5mA/120Vac  |                   |                   |                   |                   |
| Output Protection | Over Current   | Constant current limiting  |                   |                   |                   |                   |
|                   | 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                   |                   |                   |                   |                   |
| Environmental     | Operating Humidity   | 20~95% RH, non-condensing  |                   |                   |                   |                   |
|                   | Storage Humidity   | 10~95% RH  |                   |                   |                   |                   |
|                   | Temperature Coefficient  | ±0.03%/℃ (0~50℃)   |                   |                   |                   |                   |
|                   | Vibration  | 10~300Hz, 1G, Period for 60min, each along X、Y、Z axes.                                   |                   |                   |                   |                   |
| Safety & EMC      | 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℃/70% RH  |                   |                   |                   |                   |
|                   | 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                 |                   |                   |                   |                   |
| Others            | Authentication   | TUV/CE/RoHS  |                   |                   |                   |                   |
|                   | MTBF   | 173k Hrs at full load and 30℃ ambient conditions per MIL-HDBK-217F                       |                   |                   |                   |                   |
|                   | Input Over-voltage   | Can survive input over-voltage stress of 320Vac for 48 hours                             |                   |                   |                   |                   |
|                   | Dimensions (mm)  | 249×68×40  |                   |                   |                   |                   |
|                   | Max. Case Temp.  | Tc max=80℃   |                   |                   |                   |                   |
|                   | Net Weight   | 1.20Kg/pcs   |                   |                   |                   |                   |
| Note              | 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ 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. |  |                   |                   |                   |                   |

TABLE 4:

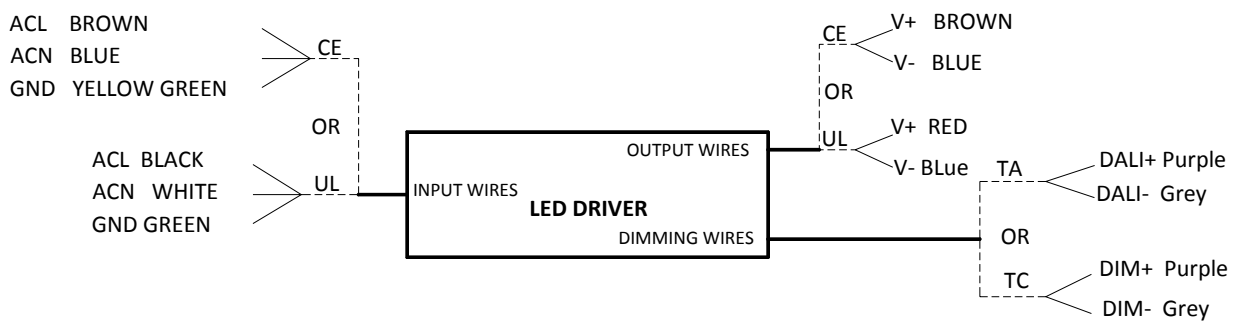
| Model             |  | DH200-032S630X-YY  |  |  |  |  |
|-------------------|--|--|--|--|--|--|
| Output            | DC Voltage   | 32Vdc  |  |  |  |  |
|                   | Constant Current Operation Voltage <small>note.5</small>   | 17~32Vdc   |  |  |  |  |
|                   | Rated DC Current   | 6300mA   |  |  |  |  |
|                   | Current Range  | 0~6300mA   |  |  |  |  |
|                   | Dimming Current Range  | 10~100% rated output current (≥50% rated output voltage)                                 |  |  |  |  |
|                   | Ripple and Noise   | 200mVp-p   |  |  |  |  |
|                   | Voltage ADJ. Range <small>note.3</small>   | 29~34Vdc   |  |  |  |  |
|                   | Current ADJ. Range <small>note.3</small>   | 3150~6300mA  |  |  |  |  |
|                   | Voltage Tolerance  | ±1%  |  |  |  |  |
|                   | Voltage Line Regulation  | ±0.5%  |  |  |  |  |
|                   | Voltage Load Regulation  | ±0.5%  |  |  |  |  |
| Input             | Efficiency   | 93.5%  |  |  |  |  |
|                   | Power Factor   | 0.97/230Vac  |  |  |  |  |
|                   | AC Current   | 2.4A/100Vac, 1.2A/230Vac   |  |  |  |  |
|                   | Leakage Current  | <0.75mA/230Vac; <0.5mA/120Vac  |  |  |  |  |
| Output Protection | Over Current   | Constant current limiting  |  |  |  |  |
|                   | 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                   |  |  |  |  |
| Environmental     | Operating Humidity   | 20~95% RH, non-condensing  |  |  |  |  |
|                   | Storage Humidity   | 10~95% RH  |  |  |  |  |
|                   | Temperature Coefficient  | ±0.03%/℃ (0~50℃)   |  |  |  |  |
|                   | Vibration  | 10~300Hz, 1G, Period for 60min, each along X、Y、Z axes.                                   |  |  |  |  |
| Safety & EMC      | 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℃/70% RH  |  |  |  |  |
|                   | 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                 |  |  |  |  |
| Others            | Authentication   | TUV/CE/RoHS  |  |  |  |  |
|                   | MTBF   | 173k Hrs at full load and 30℃ ambient conditions per MIL-HDBK-217F                       |  |  |  |  |
|                   | Input Over-voltage   | Can survive input over-voltage stress of 320Vac for 48 hours                             |  |  |  |  |
|                   | Dimensions (mm)  | 249×68×40  |  |  |  |  |
|                   | Max. Case Temp.  | Tc max=80℃   |  |  |  |  |
|                   | Net Weight   | 1.20Kg/pcs   |  |  |  |  |
| Note              | 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ 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. |  |  |  |  |  |

### Part number code

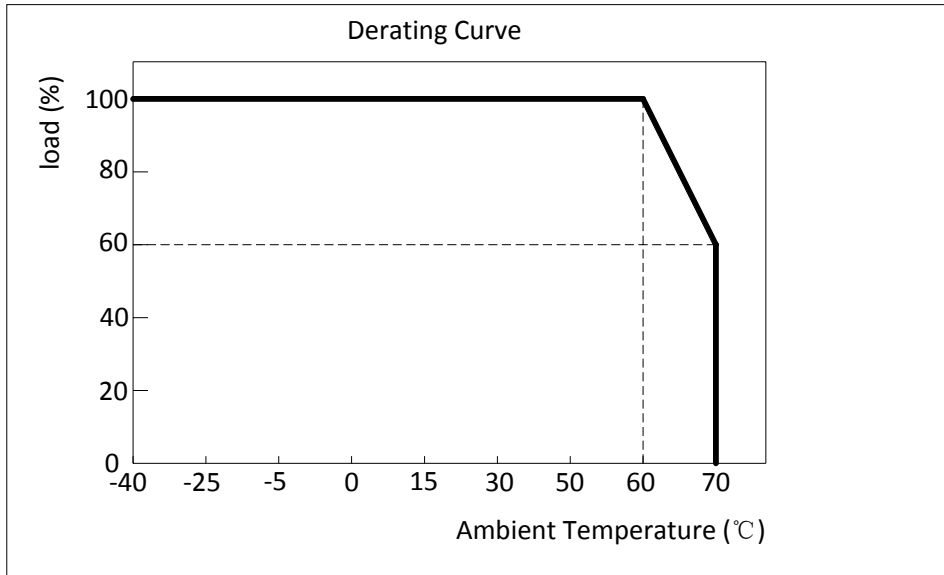


For example: DH200-024S833A-TA means: high efficiency LED driver; output power 200W; output voltage 24Vdc; output current 8330mA; single output; output voltage and current can be adjusted; with DALI dimming function and isolated output.

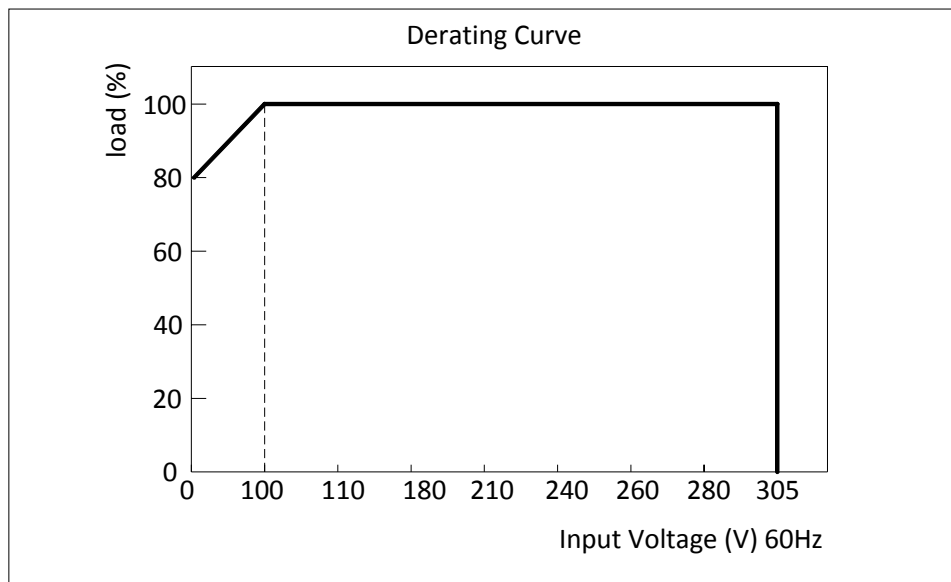
### wiring diagram



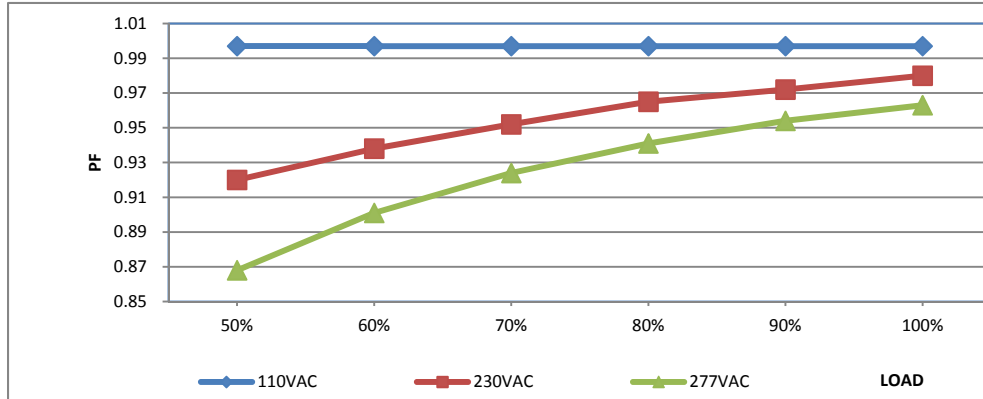
#### ■ Derating Curve



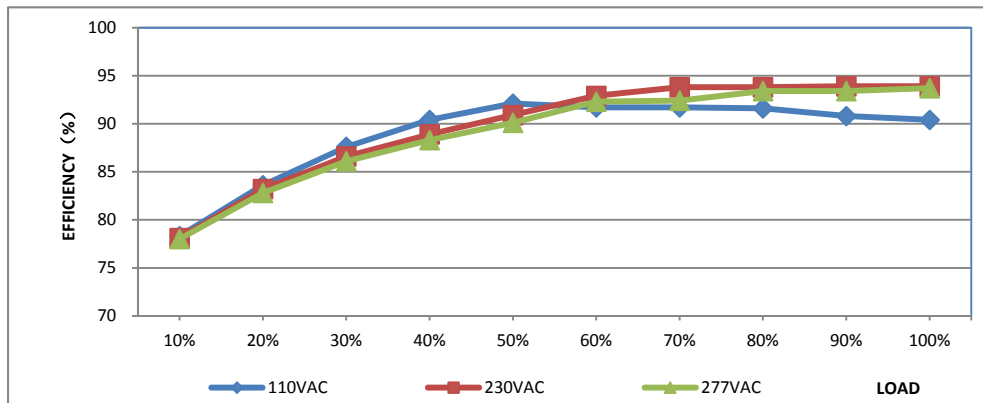
#### ■ Static Characteristics



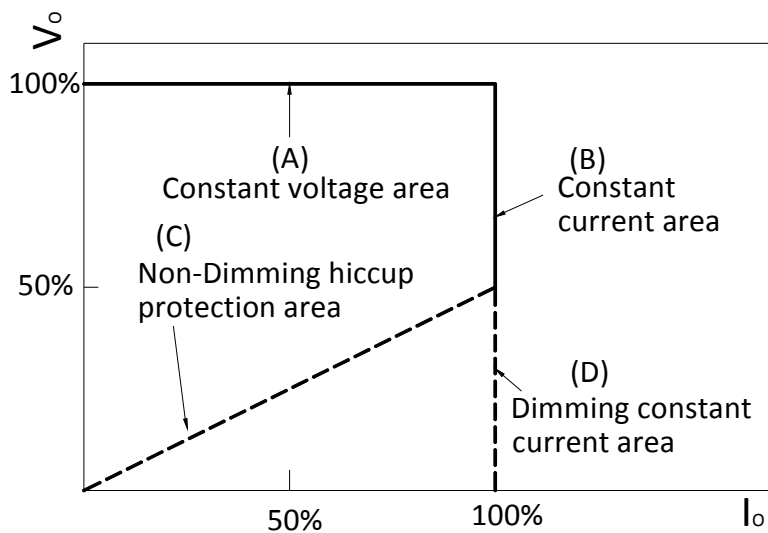
### Power Factor Characteristic (DH200-024S833)



### EFFICIENCY vs LOAD (DH200-024S833)

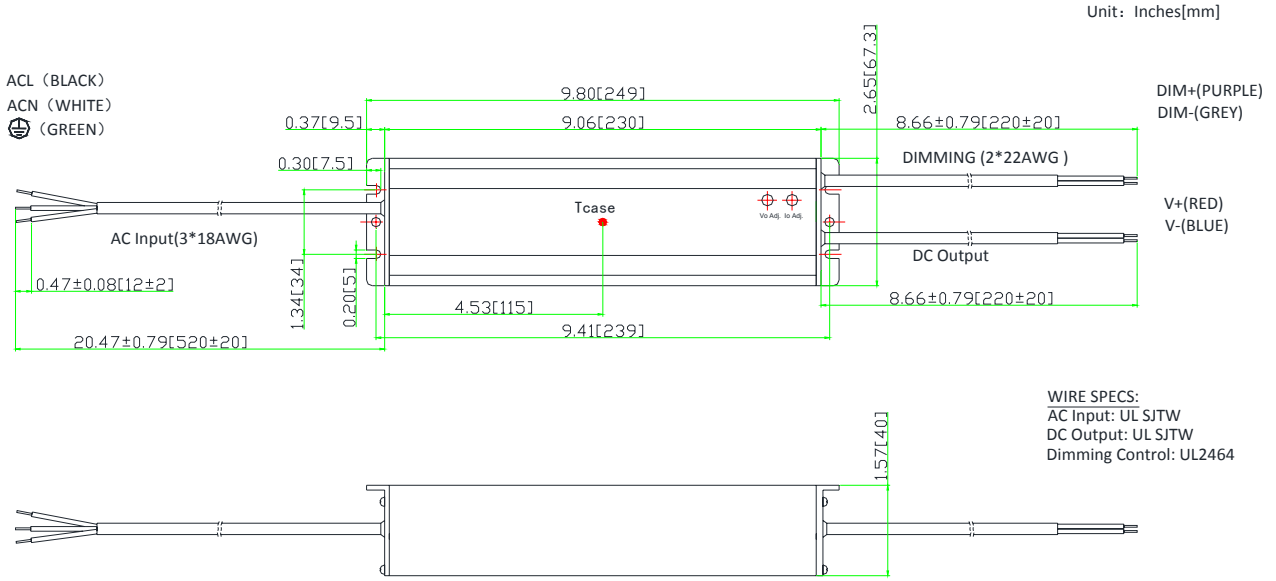


### Typical LED power supply I-V curve





### ■ Mechanical Outline



- ※ Tcase: Max. Case Temperature.
- ※ Power's internal temperature is 10°C warmer than case temperature.
- ※ No dimming control wire if without dimming function.
- ※ Please DO NOT connect "DIM -" to "V -" (load)

| NO. | DC Output Current    | Wire Number | Wire specification |
|-----|----------------------|-------------|--------------------|
| 1   | ≤5A                  | 1           | 2×AWG18            |
| 2   | 5-12A(Including 12A) | 1           | 2×AWG16            |

### ■ "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.

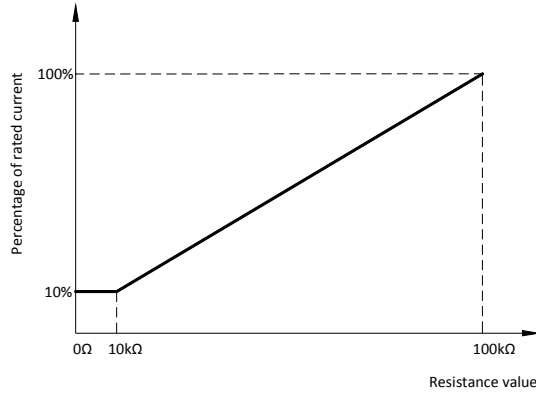
### ■ "-TA" option: DALI dimming

- a. DALI Testing Software: Please refer to [www.brightway-tech.com](http://www.brightway-tech.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.

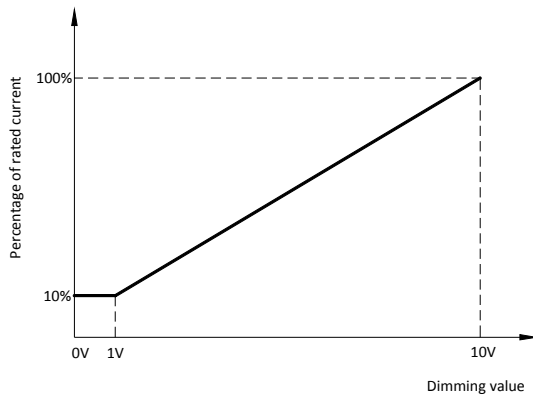


#### ■“-TC” option: 0-10V, resistance & PWM dimming

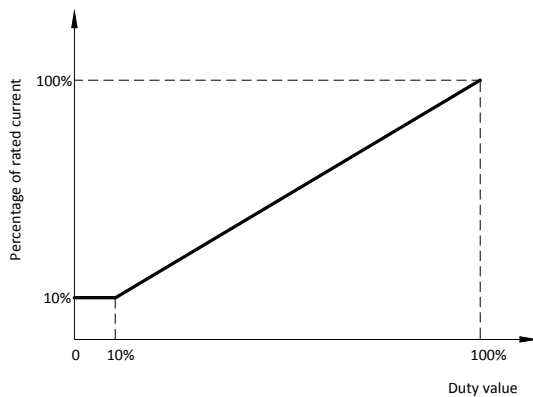
a. Reference resistance value for output current adjustment (Typical)



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.

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

### ■ "-TF" option: Programmable timeshare dimming.

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

For example:

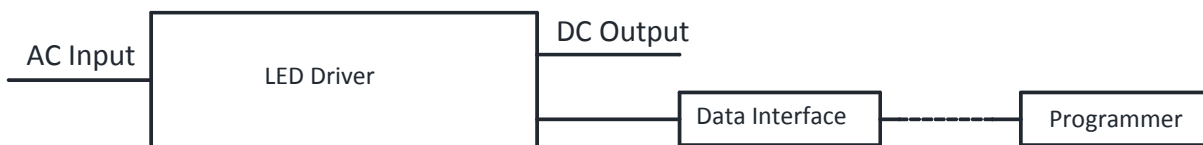
The first section: the time period is 0~1h, the output current is 40% of rated output current.

The second section: the time period is 1h~4h, the output current is 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.

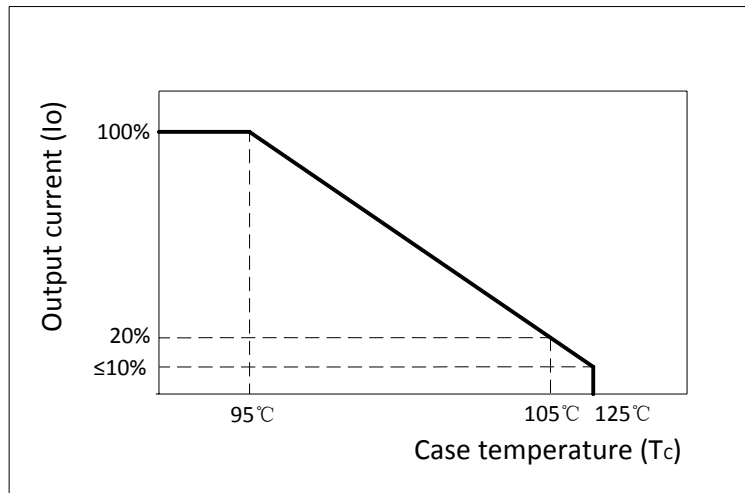
- The parameters are set by a programmer.
- The data interface is waterproof.



### ■ 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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