



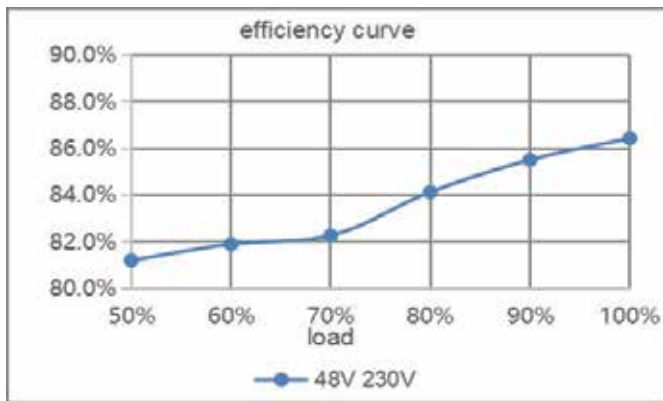
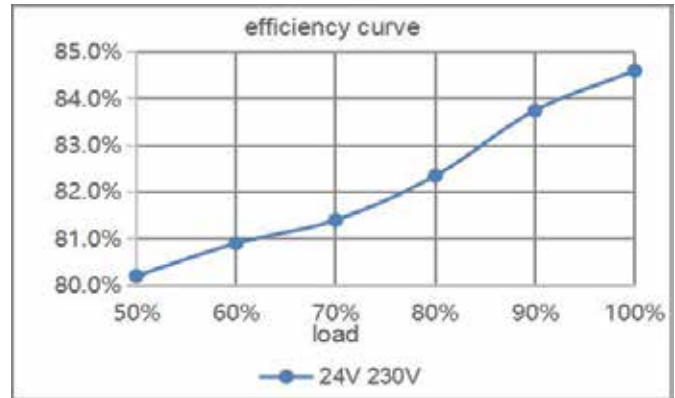
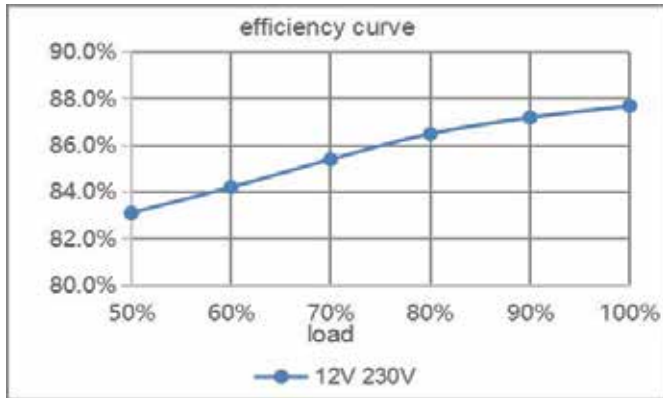
## ■ Features

|                                |                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------|
| <b>Output:</b>                 | Constant Voltage                                                                  |
| <b>Range:</b>                  | 200-240VAC                                                                        |
| <b>PFC design:</b>             | Built-in active PFC function                                                      |
| <b>Efficiency:</b>             | Up to 86%                                                                         |
| <b>Protections:</b>            | Short circuit/ over load/ over temperature                                        |
| <b>Heat dissipation:</b>       | Cooling by free air convection                                                    |
| <b>Waterproof performance:</b> | IP20                                                                              |
| <b>Dimming function:</b>       | Phase dimming: work with leading edge, MLV and trailing edge, ELV, TRIAC dimmers. |
| <b>Dimming range:</b>          | 0 -100%                                                                           |
| <b>Application:</b>            | Suitable for the application of LED lighting                                      |
| <b>Warranty:</b>               | 5 years warranty                                                                  |

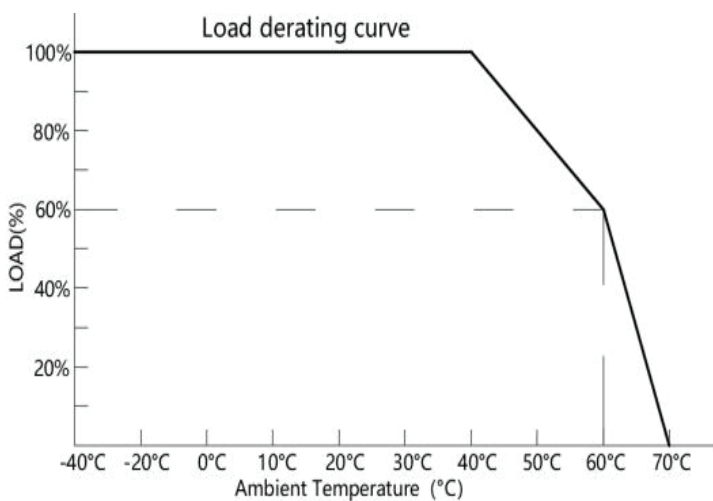
## ■ Specification

| Model       |                                                                                                                                                                                     | SC-80-12                                                                                                | SC-80-24        | SC-80-48       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------|----------------|
| Certificate |                                                                                                                                                                                     | ENEC / CCC / CE / CB / RoHS / Reach                                                                     |                 |                |
| Output      | DC Voltage                                                                                                                                                                          | 12V                                                                                                     | 24V             | 48V            |
|             | Voltage Tolerance                                                                                                                                                                   | ±0.5V                                                                                                   |                 |                |
|             | Voltage Regulation                                                                                                                                                                  | ≤2%                                                                                                     | ≤1%             |                |
|             | Rated Current                                                                                                                                                                       | 6.67A                                                                                                   | 3.33A           | 1.67A          |
|             | Rated Power                                                                                                                                                                         | 80W                                                                                                     |                 |                |
|             | Load Regulation                                                                                                                                                                     | ≤0.5%                                                                                                   |                 |                |
| Input       | Voltage Range                                                                                                                                                                       | 200-240VAC                                                                                              |                 |                |
|             | Frequency Range                                                                                                                                                                     | 47 - 63Hz                                                                                               |                 |                |
|             | THD(Typ.)@ Full Load                                                                                                                                                                | PF≥0.97@200VAC @230VAC @240VAC                                                                          |                 |                |
|             | Efficiency(Typ.)@ Full Load                                                                                                                                                         | 82%@230VAC                                                                                              | 83%@230VAC      | 86.43%@230VAC  |
|             | AC Current (Max.)                                                                                                                                                                   | 0.8A                                                                                                    |                 |                |
|             | Inrush Current(Typ.)                                                                                                                                                                | 56A,280us@230VAC                                                                                        |                 |                |
|             | Leakage Current                                                                                                                                                                     | <0.5mA                                                                                                  |                 |                |
| Protection  | Short Circuit                                                                                                                                                                       | Shut dpwn o/p voltage re-power on to recover after fault condition removed                              |                 |                |
|             | Over Load                                                                                                                                                                           | ≤120% constant curreny limiting, recovers automatically after fault condition is removed                |                 |                |
|             | Over Temperature                                                                                                                                                                    | Shell surface temp.100°C±10°C shut down o/p voltage, automatically recover after the temperature drops. |                 |                |
| Environment | Working TEMP.                                                                                                                                                                       | -40~+60°C(see below derating curve)                                                                     |                 |                |
|             | Working Humidity                                                                                                                                                                    | 20 - 95% RH non-condensing                                                                              |                 |                |
|             | Storage TEM.,Humidity                                                                                                                                                               | -40 - +80°C, 10 - 95% RH non-condensing                                                                 |                 |                |
|             | TEMP.coefficient                                                                                                                                                                    | ±0.03%/°C (0 - 50°C)                                                                                    |                 |                |
|             | Vibration                                                                                                                                                                           | 10~500Hz, 5G 12min/1 cycle, period for 72min. each along X,Y,Z axes                                     |                 |                |
| Safety&EMC  | Safety standards                                                                                                                                                                    | EN/IEC-61347, EN/IEC-60598 Approved, AS/NZS-61347/60598 Approved                                        |                 |                |
|             | Withstand voltage                                                                                                                                                                   | I/P-O/P:3.75KVAC                                                                                        | I/P-FG:1.88KVAC | I/P-FG:0.5KVAC |
|             | Isolation resistance                                                                                                                                                                | I/P-O/P:100MΩ/ 500VDC / 25°C / 70%RH                                                                    |                 |                |
|             | EMC Emission                                                                                                                                                                        | Compliance to EN/IEC-55015, EN/IEC-61000, AS CISPR 15:2017                                              |                 |                |
| Others      | Net Weight                                                                                                                                                                          | 1.04kg                                                                                                  |                 |                |
|             | Dimension                                                                                                                                                                           | 226*69.8*24mm(L*W*H)                                                                                    |                 |                |
|             | Packing                                                                                                                                                                             | 355*285*170mm 10pcs/CTN 14.41KG/CTN                                                                     |                 |                |
| Notes       | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.<br>2. Tolerance: includes set up tolerance and load regulation. |                                                                                                         |                 |                |

### ■ Efficiency Curve (Efficiency vs Output load)

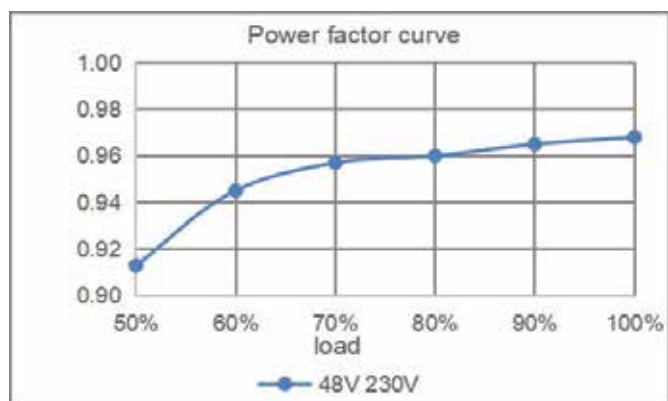
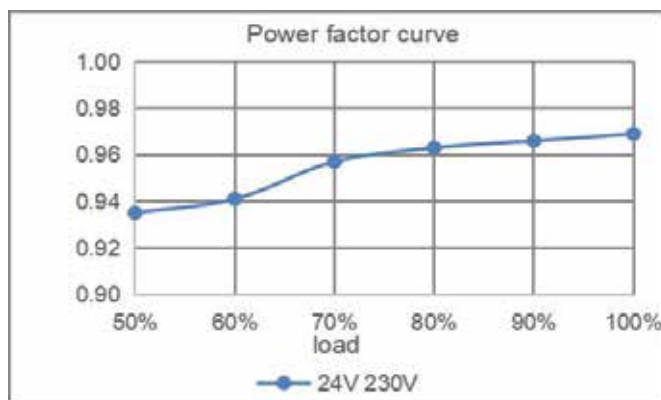
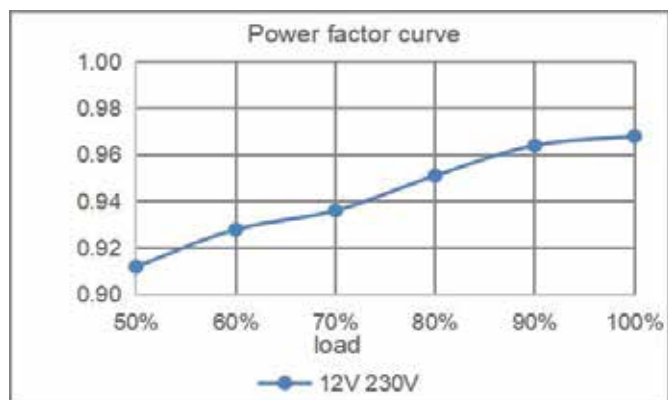


### ■ Derating Curve (Output load vs TEMP.)

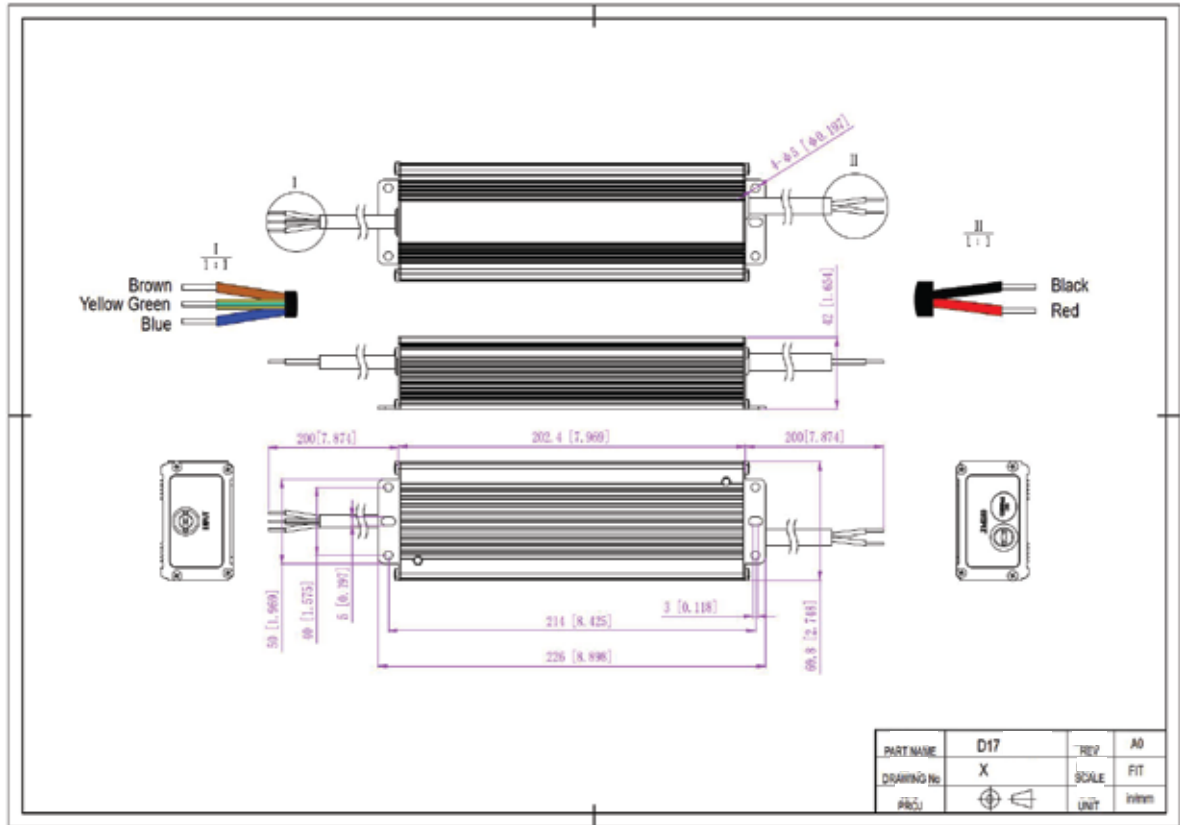


※ To extend their life, please refer to the Derating Curve and derate according to the temperature.

■ **Power Factor Curve**



## ■ Mechanical Specification



### 12 & 24V & 48V Version

1. Input Rubber cable H05RN-F 3\*1.0mm<sup>2</sup>, the Green/Yellow cable connect with (FG), Brown with AC (L), Blue with AC (N).
2. Output Rubber cable H05RN-F 2\*1.0mm<sup>2</sup>, Red is output (V+) Positive, Black is output (V-) negative. Connected to LED Lamps.
3. Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

### Warm tips:

Any other requests for cable, we can customized.

## ■ Dimming Operation and Connecting Diagram

### TRIAC/Phase cut dimming

1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with leading edge, MLV and trailing edge, ELV, TRIAC dimmers or light system.
3. Min. loading is about 10%.
4. Please try to use dimmers with power at least 1.5 times as the output power of the driver.



## ■ Instruction

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.
4. If driver Cannot work normally, don't maintain privately.