

### General

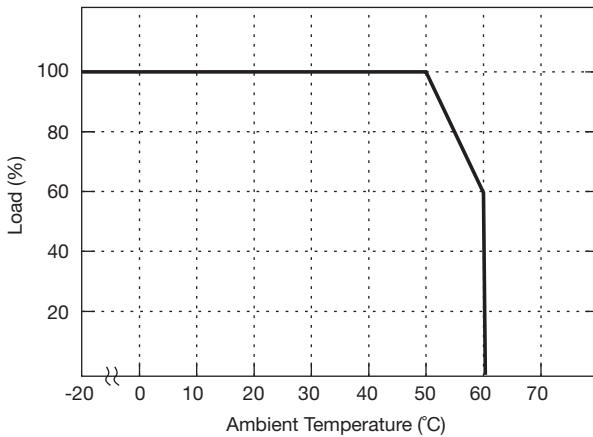
| Characteristic                                                    | Minimum | Typical      | Maximum | Units             | Notes & Conditions                                                 |
|-------------------------------------------------------------------|---------|--------------|---------|-------------------|--------------------------------------------------------------------|
| Efficiency                                                        | 89      |              | 93      | %                 | See Models and Ratings table                                       |
| Isolation: Input to Output<br>Input to Ground<br>Output to Ground | 3000    |              |         | VAC               |                                                                    |
|                                                                   | 1500    |              |         | VAC               |                                                                    |
|                                                                   | 500     |              |         | VAC               |                                                                    |
| Switching Frequency                                               |         | 65           |         | kHz               | PFC                                                                |
|                                                                   | 40      |              | 200     | kHz               | PWM, variable                                                      |
| Power Density                                                     |         |              | 8.1     | W/in <sup>3</sup> |                                                                    |
| Signals and Controls                                              |         |              |         |                   | Enable, Current Share, V Program, I Program, 5 V Standby, Power OK |
| Mean Time Between Failure                                         |         | 90           |         | kHrs              | MIL-HDBK-217F, 25 °C GB                                            |
| Weight                                                            |         | 11.57 (5.25) |         | lb (kg)           |                                                                    |

### Environmental

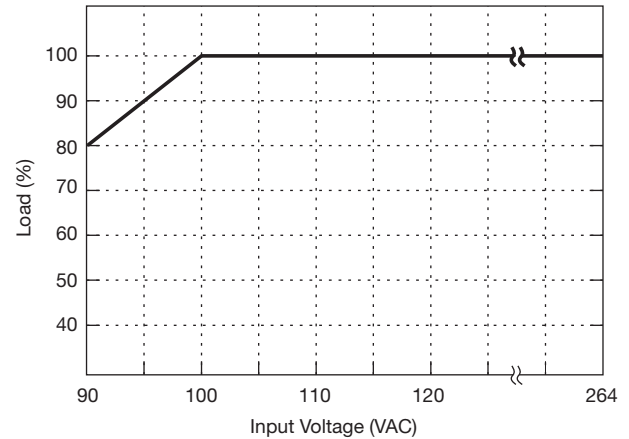
| Characteristic        | Minimum | Typical | Maximum | Units | Notes & Conditions                                                                       |
|-----------------------|---------|---------|---------|-------|------------------------------------------------------------------------------------------|
| Operating Temperature | -25     |         | 60      | °C    | Derate linearly from 100% load at 50 °C to 60% load at 60 °C                             |
| Storage Temperature   | -40     |         | +85     | °C    |                                                                                          |
| Cooling               |         |         |         |       | Internal fan fitted, speed increases with load and internal temperature                  |
| Humidity              | 20      |         | 90      | %RH   |                                                                                          |
| Vibration             |         |         | 2       | g     | 10-500 Hz, 10 min/cycle, 60 min period for each axis, compliant to IEC68-2-6, IEC68-2-64 |

### Derating Curve

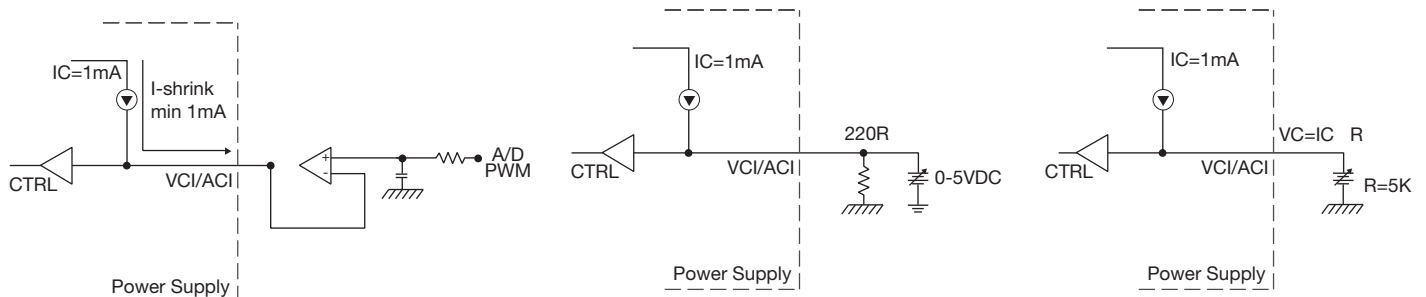
Thermal Derating Curve



Input Derating Curve



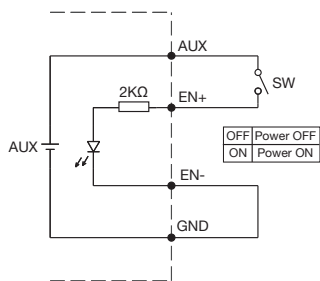
### External Programming Voltage Connection



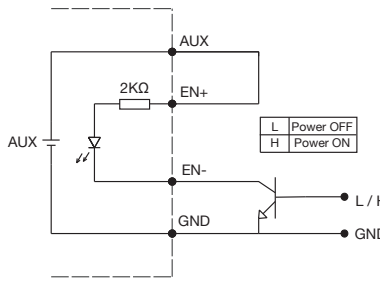
### Signals & Controls

| LED Status               | Output Status                       |
|--------------------------|-------------------------------------|
| Solid (Green)            | DC Output OK                        |
| Solid (Orange)           | DC Output OK in remote control mode |
| Slow Blink (Green)       | Output Not Enabled                  |
| Fast Blink (Red)         | Over Voltage                        |
| Solid (Red)              | Over Loaded                         |
| Slow Blink (Red)         | Over Temperature                    |
| Intermittent Blink (Red) | Fan Fail                            |
| Short & Long Blink (Red) | AUX Standby Failure                 |

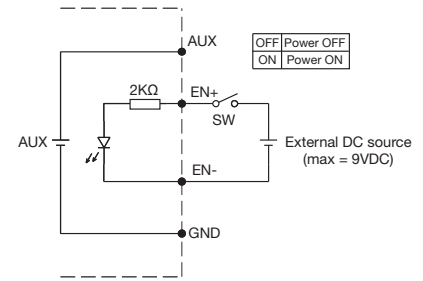
### Remote Enable



(A) Using internal auxiliary standby



(B) Using external transistor



(C) Using external voltage source

\*GND shown in above diagram is referring to the GND of CN2, not the grounding from output power (NEG -)

### EMC: Emissions

| Phenomenon        | Standard    | Test Level | Notes & Conditions |
|-------------------|-------------|------------|--------------------|
| Conducted         | EN55032     | Class A    |                    |
| Radiated          | EN55032     | Class A    |                    |
| Harmonic Currents | EN61000-3-2 | Class A    |                    |
| Voltage Flicker   | EN61000-3-3 |            |                    |

### EMC: Immunity

| Phenomenon             | Standard    | Test Level           | Criteria | Notes & Conditions                  |
|------------------------|-------------|----------------------|----------|-------------------------------------|
| ESD Immunity           | EN61000-4-2 | 2 / 3                | A        | ±4 kV contact / ±8 kV air discharge |
| Radiated Immunity      | EN61000-4-3 | 3                    | A        |                                     |
| EFT/Burst              | EN61000-4-4 | 3                    | A        | 10 V/m                              |
| Surge                  | EN61000-4-5 | Installation class 3 | A        |                                     |
| Conducted              | EN61000-4-6 | 3                    | A        | 10 V/m                              |
| Magnetic Field         | EN61000-4-8 | 3                    | A        | 30 A/m                              |
| Dips and Interruptions | EN55024     | DIP: 30% 500 ms      | A/B      | High Line/Low Line                  |
|                        |             | INT: >95% 10 ms      | A        |                                     |
|                        |             | INT: >95% 5000 ms    | B        |                                     |

### Safety Approvals

| Safety Agency | Safety Standard                          | Notes & Conditions     |
|---------------|------------------------------------------|------------------------|
| CB            | IEC60950-1:2005 Ed 2 / IEC62368-1:2014   | Information Technology |
| UL            | UL 62368-1 & CAN/CSA C22.2 No.62368-1-14 | Information Technology |
| TUV           | EN 62368-1:2014/A11:2017                 | Information Technology |
| CE            | LVD                                      |                        |