

# D10CC30UVPID12-C

## 1050mA Programmable LED Driver

- Universal (120-277V) Input Voltage
- Class 2, 30W Constant Current Output
- Digital dimming with 2-way communication

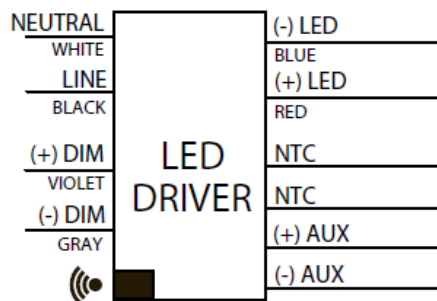


### Performance

|                       |   |
|-----------------------|---|
| Input Voltage         | 120 ~ 277 Vac   |
| Input Current Max     | 0.56 / 120V 0.24 / 277V   |
| Input Power Max       | 36W   |
| Input Frequency       | 50 - 60 (Hz)  |
| Power Factor*         | > 0.95  |
| THD max*              | < 20 %  |
| Output Voltage        | 15V to 30V @ 1.05 Amps<br>(Refer to Power Curve Chart) 15V to 56V @ 0.53 Amps |
| Max. Output Current   | 315 - 1050mA  |
| Min. Dimming Current  | 10.5mA  |
| Output Power          | 30W   |
| Standby Power         | < 2.8W @ 120Vac<br>< 3.5W @ 277Vac  |
| Line Regulation       | ±3 %  |
| Load Regulation       | ±5 %  |
| Output Current Ripple | <10% (Pk-Pk/avg)  |
| Inrush Current        | 120V: 8.5A / 250uS  |
| Peak / >50% Duration  | 277V: 11.0A / 250uS   |

- \* Refer to charts for additional information
- Harmonic Emissions comply with ANSI C82.77
  - Inrush current complies with NEMA 410

### Wiring Diagram:



### Auxiliary Output

|                |        |
|----------------|--------|
| Output Voltage | 12Vdc  |
| Output Current | 100 mA |

### Physical

|   |                     |
|---|---------------------|
| Length  | 14.25 in (362 mm)   |
| Width   | 1.18 in (30 mm)     |
| Height  | 1.00 in (25.4 mm)   |
| Mounting Length   | 13.75 in (349.3 mm) |
| Weight (lbs)  | 1.0                 |
| Wire Trap / Plug-in Connectors for 16-24 AWG Solid Wire |                     |

### Environmental

|                       |   |
|-----------------------|---|
| EMI and RFI           | Meets FCC part 15 (Class A) Non-Consumer Limits |
| Operating Temperature | -40°C to 50°C<br>(-40°F to 122°F)               |
| Storage Temperature   | -40°C to 85°C<br>(-40°F to 185°F)               |
| tc                    | 85°C max for warranty<br>90°C max for UL        |
| Protection Rating     | UL Dry & Damp                                   |
| Transient Protection  | IEEE C62.41 2.5kV                               |

Protection  
Over Voltage, Under Voltage, Short Circuit, Over Temp

Safety:

UL 8750 & CSA 250.13  
UL Class P



### Ordering Information

| Order Number         | Description      | Qty/Carton |
|----------------------|------------------|------------|
| D10CC30UVPID12-C010C | Standard Product | 10         |



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# D10CC30UVPID12-C

## Programmable Features

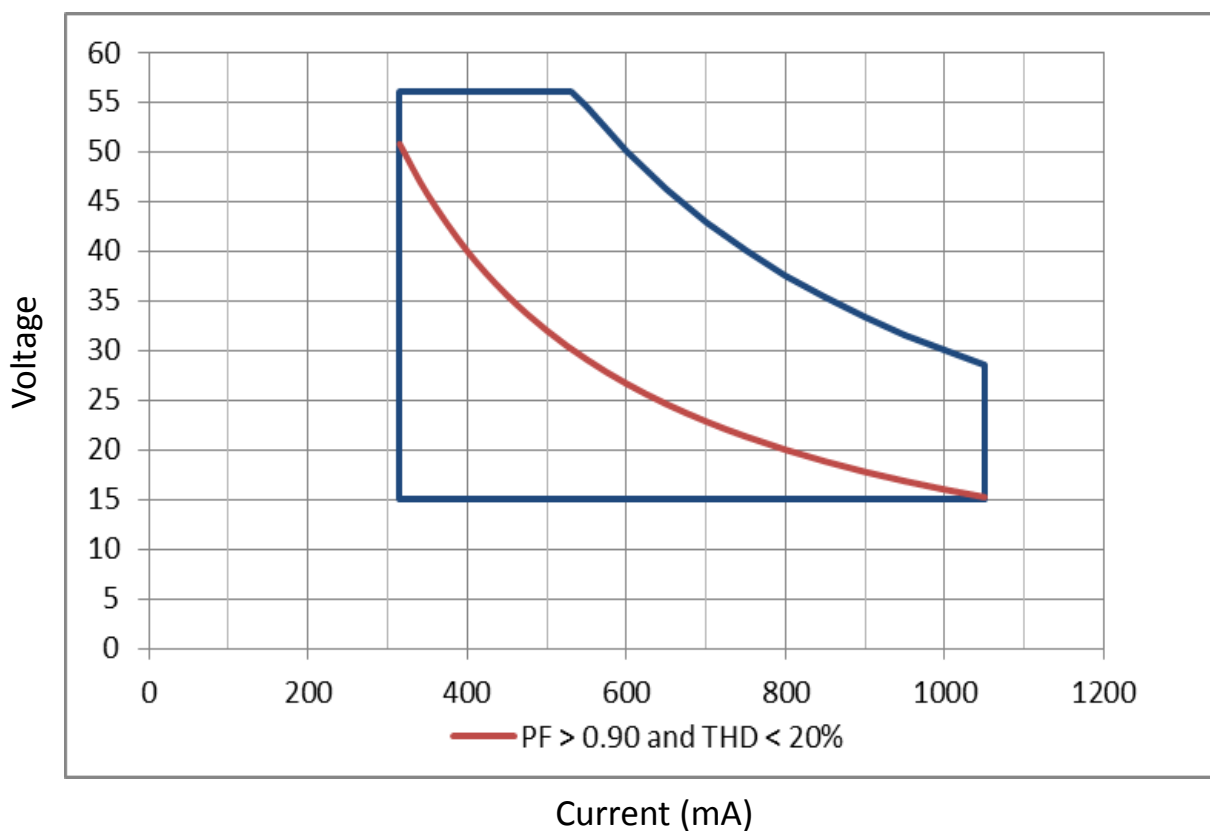
Output Current  
Dim Current Floor

\*Refer to application note EVD12 at [www.unvlt.com](http://www.unvlt.com) for additional information on programmable features.

## Programming System

|                   |  |
|-------------------|--|
| Software          | EVERset Programming Software               |
| Hardware          | LDPC000A Configuration Tool                |
| Driver Interfaces | Wired via 0-10V leads<br>Wireless via RFID |

## Driver Operating Range:

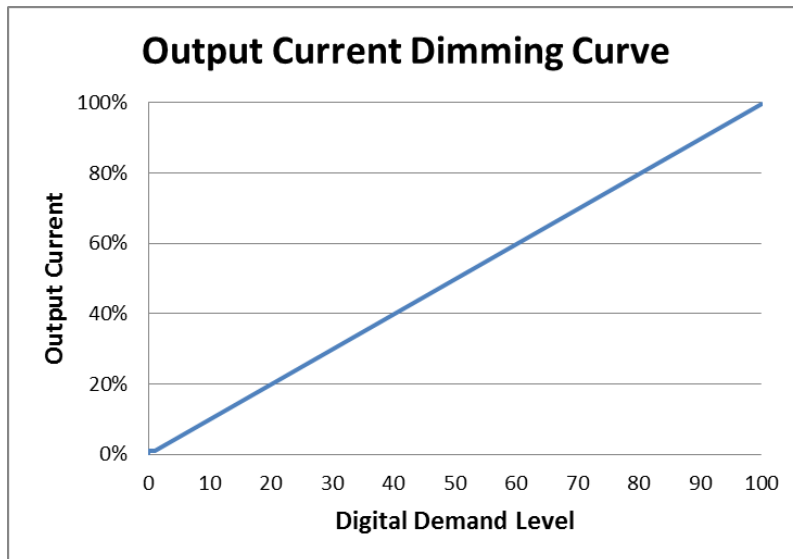


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## Digital Dimming

### Digital Dimming to 1%



### Programmable Dimming Features

| Feature                | Range        | Factory Default  |
|------------------------|--------------|------------------|
| Maximum Output Current | 315 - 1050mA | default = 1050mA |
| Dim Current Floor      | 0 - 263mA    | default = 0mA**  |

\* Refer to application note EVD12 at [www.unvlt.com](http://www.unvlt.com) for additional information on programmable dimming features.

\*\* Minimum dimming current of the driver is 10.5mA, a lower programmed dim current floor is used for the slope of the digital dimming curve.



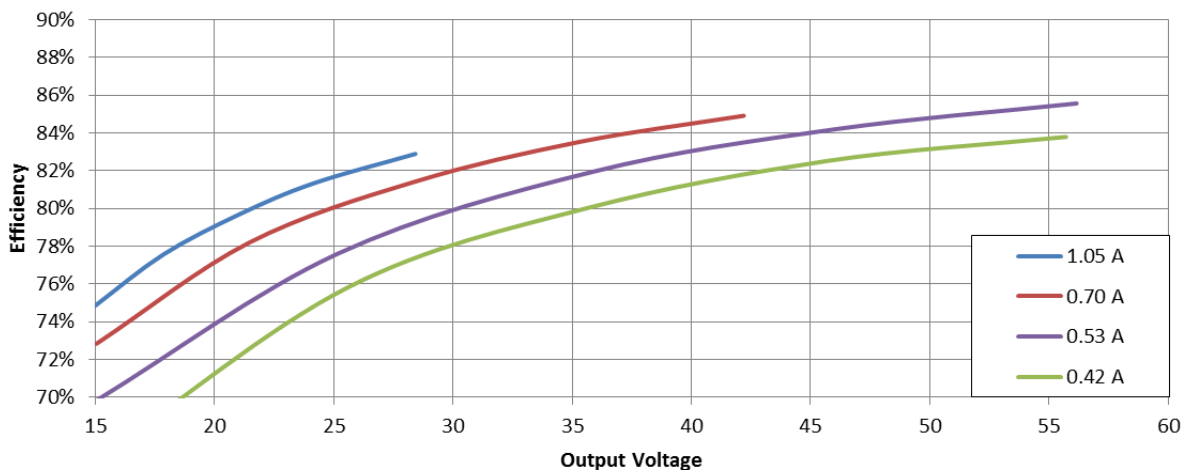
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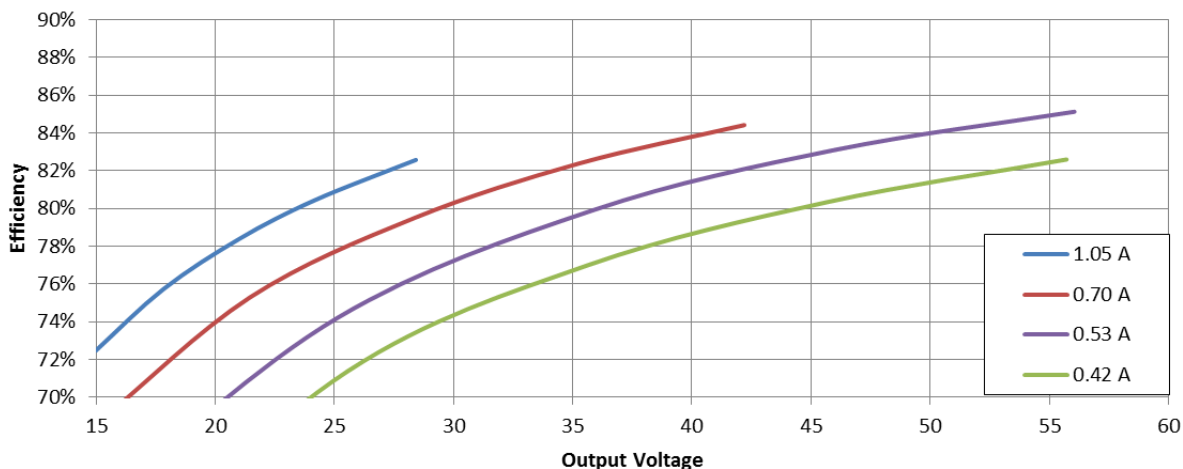
## Performance: Efficiency

Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.

### Efficiency Vs. Output Voltage, 120V In



### Efficiency Vs. Output Voltage, 277V In

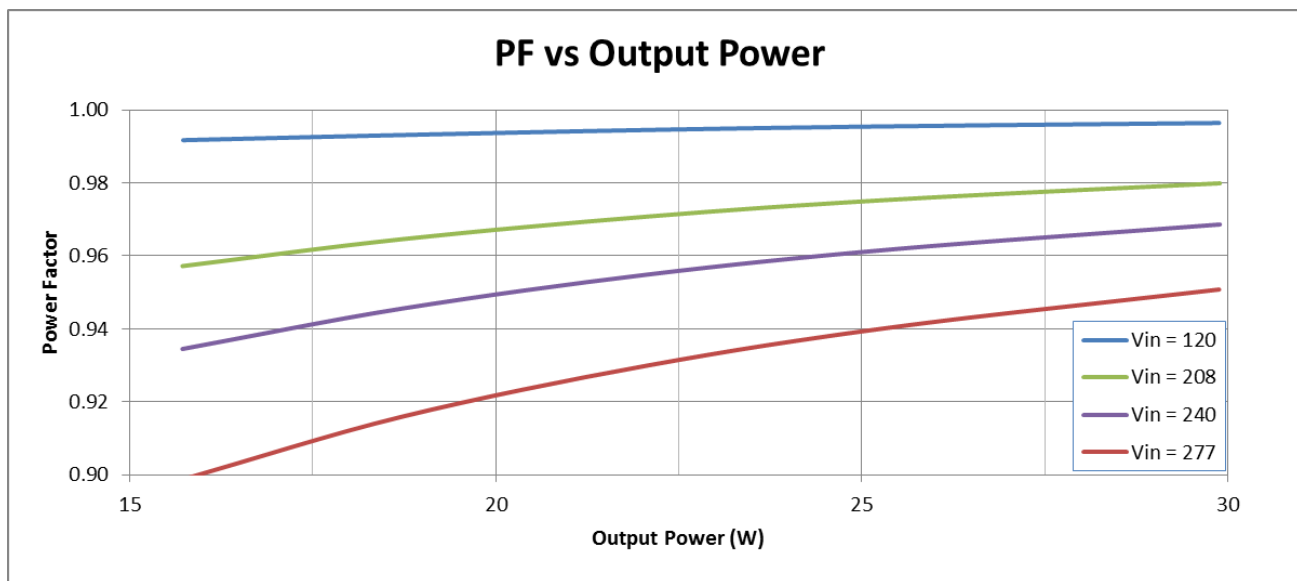
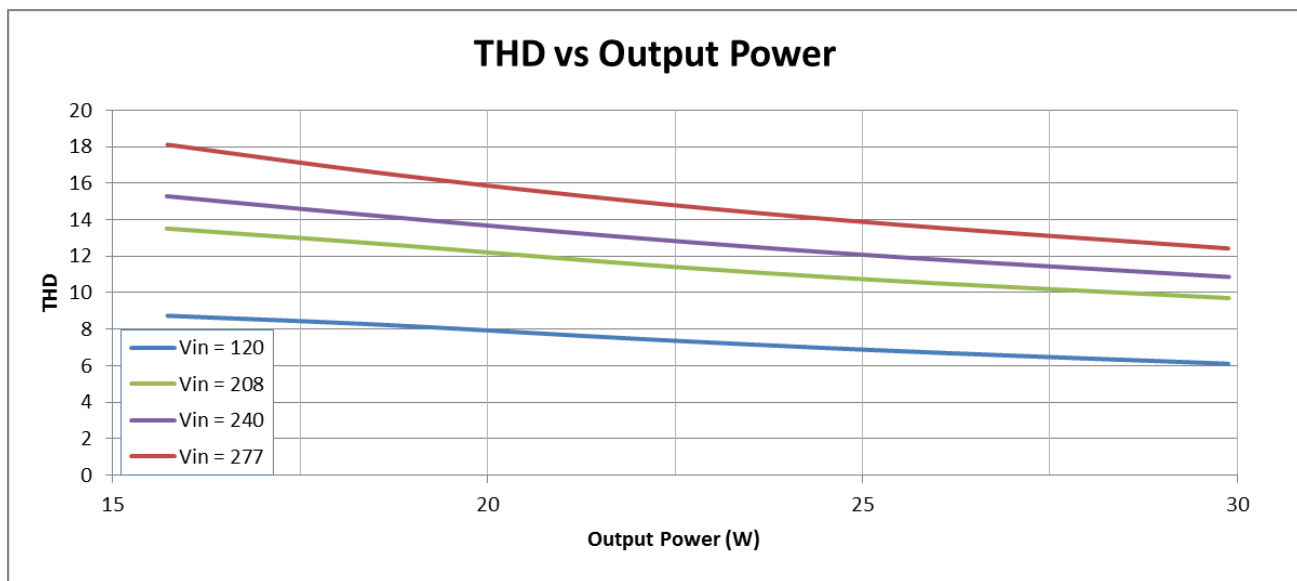


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## Performance: Total Harmonic Distortion, & Power Factor

Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.



Output power based on maximum rated output current and varying load voltages.



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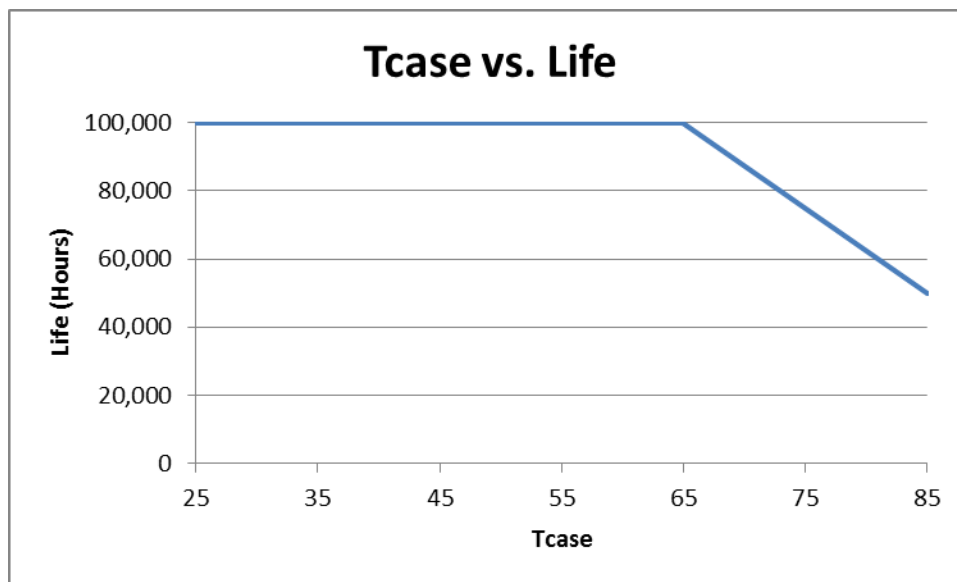
# D10CC30UVPID12-C

| Transient Protection                        |                         |                               |
|---|-------------------------|-------------------------------|
| Transient                                   | Differential Mode (L-N) | Common Mode (L-G, N-G, L&N-G) |
| IEEE C62.41 100kHz Ring Wave (200A maximum) | > 2.5kV                 | > 2.5kV                       |

| Isolation   |           |              |             |              |              |           |
|-------------|-----------|--------------|-------------|--------------|--------------|-----------|
| Isolation   | Input     | Output       | Digital Dim | Auxiliary    | NTC          | Enclosure |
| Input       | -         | 2xU + 1kV    | 2xU + 1kV   | 2xU + 1kV    | 2xU + 1kV    | 2xU + 1kV |
| Output      | 2xU + 1kV | -            | 2xU + 1kV   | Non-isolated | Non-isolated | 700V      |
| Digital Dim | 2xU + 1kV | 2xU + 1kV    | -           | 2xU + 1kV    | 2xU + 1kV    | 2xU + 1kV |
| Auxiliary   | 2xU + 1kV | Non-isolated | 2xU + 1kV   | -            | Non-isolated | 700V      |
| NTC         | 2xU + 1kV | Non-isolated | 2xU + 1kV   | Non-isolated | -            | 2xU + 1kV |
| Enclosure   | 2xU + 1kV | 700V         | 2xU + 1kV   | 700V         | 2xU + 1kV    | -         |

U = Max Input Voltage

## Driver Lifetime vs. Driver Case Temperature



The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.

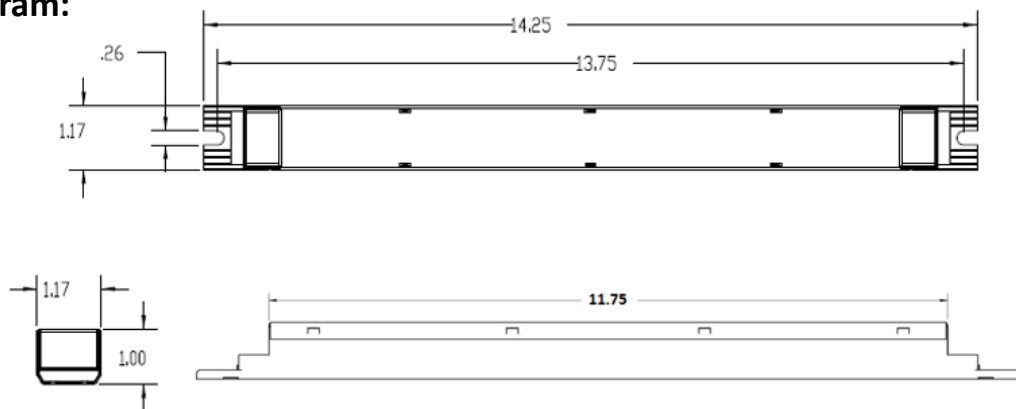


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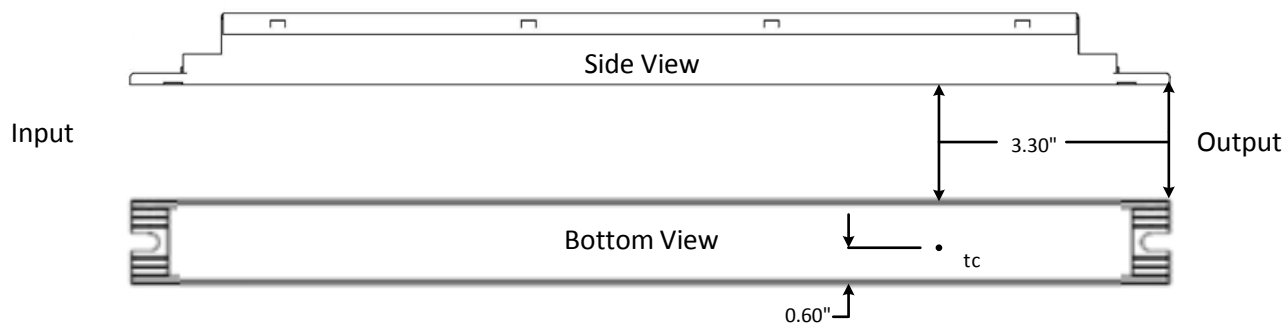


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## Dimensional Diagram:



## Tc Location:



FCC Statement: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Warranty:

Universal Lighting Technologies warrants to the purchaser that each power supply will be free from defects in material or workmanship for a period of 5 years from the date of manufacture when properly installed per instructions and under normal operating conditions of use. Call 1-800-225-5278 for technical assistance.



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