

# forza

POWER TECHNOLOGIES

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EL-1.5K / EL-3K



## EL-1.5K / EL-3K

The 1.5kVA and 3kVA Elipse series are designed for critical applications that require advanced power protection. This line uses ONLINE double conversion technology, which supplies a clean and stable, pure sinusoidal output wave with zero transfer time. The Elipse is controlled by a microprocessor that increases efficiency and guarantees high reliability. The unit is compatible with the Forza management software Winpower, with which the user can control the UPS with his/her computer through a DB-9 interface port incorporated into the UPS.





### DESCRIPTION

- UPS Online with double conversion technology
- Controlled by an advanced microprocessor
- Pure sinusoidal output wave
- Cold boot capability
- Metal chassis for use in industrial environments
- Automatic self-evaluation system
- Audible alarm
- Management software included (Winpower)
- DB-9 (RS232) interface port (cable included)
- 4 (EL-1.5K) / 6 (EL-3K) US NEMA 5-15R output jacks
- 1 US power cable with NEMA 5-15P (EL-1.5K) outlet
- 1 US power cable with NEMA L5-30P (EL-3K) outlet

### STANDARD APPLICATIONS

- Telecommunications
- Networks
- Warehousing
- Industrial
- High-performance servers
- Workstations
- Other critical equipment

### CONNECTIONS

|        | EL 1.5K   | EL 3K   |
|--------|---|---|
| Input  |  |  |
| Output |  |  |



| MODEL                | FEATURES                       |                                | ELIPSE - 1.5K  | ELIPSE - 3K      |
|----------------------|--------------------------------|--------------------------------|--|------------------|
| <b>CAPACITY</b>      | VA / W                         |                                | 1500 VA / 1050 W   | 3000 VA / 2100 W |
| <b>INPUT</b>         | Voltage                        |                                | 60~138 VAC   |                  |
|                      | Voltage Range                  | Based on following percentages | (100%-70% / 70%-60% / 60%-50% / 50%-40% / 40% - 0%)  |                  |
|                      |                                | Line Low Transfer              | 80 VAC / 70 VAC / 70 VAC / 60 VAC / 60 VAC   |                  |
|                      |                                | Line Low Comeback              | 85 VAC / 85 VAC / 75 VAC / 75 VAC / 65 VAC   |                  |
|                      |                                | Line High Transfer             | 138 VAC  |                  |
|                      |                                | Line High Comeback             | 133 VAC  |                  |
|                      | Frequency Range                |                                | 46 Hz ~ 54 Hz / 56 Hz ~ 64 Hz  |                  |
|                      | Phase                          |                                | Single phase with ground   |                  |
| Power Factor         |                                | 0.95                           |  |                  |
| <b>OUTPUT</b>        | Voltage                        |                                | 110 VAC / 115 VAC / 120 VAC  |                  |
|                      | Voltage Regulation             |                                | ± 2%   |                  |
|                      | Frequency (Synchronized Range) |                                | 46 ~ 54 Hz / 56 ~ 64 Hz  |                  |
|                      | Frequency ( Battery Mode)      |                                | 50 / 60 Hz ± 0.2 Hz  |                  |
|                      | Current Crest Ratio            |                                | 3:1  |                  |
|                      | Harmonic Distortion            |                                | 5% THD ( Linear Load)  |                  |
|                      |                                |                                | 10% THD ( Non-Linear Load)   |                  |
|                      | Output Waveform                |                                | Pure Sine Wave   |                  |
| <b>EFFICIENCY</b>    | To AC Mode                     |                                | 85%  |                  |
|                      | To Battery Mode                |                                | 83%  |                  |
| <b>BATTERY</b>       | Tower Case                     | Battery Description            | Sealed lead acid battery, maintenance free   |                  |
|                      |                                | Battery Type                   | 12 V / 7.2Ah   |                  |
|                      |                                | Number of Batteries            | 4  | 8                |
|                      |                                | Backup Time (Full Load)        | 5 minutes  |                  |
|                      |                                | Recharge Time                  | 8 hours to 90%   |                  |
|                      |                                | Charging Current (Max.)        | 1.0 A  |                  |
|                      |                                | Charging Voltage               | 54.9 Vdc ± 0.4 V   | 110 Vdc ± 0.4 V  |
|                      |                                | <b>TRANSFER TIME</b>           | AC to DC   |                  |
| Inverter to Bypass   |                                |                                | 2.5 ms (Typical)   | 0 ms             |
| <b>INDICATOR</b>     | Status                         |                                | Load Level / Battery Level / Battery Mode / AC Mode / Bypass Mode / Fault  |                  |
| <b>AUDIBLE ALARM</b> | Battery Mode                   |                                | Sounding every 4 seconds   |                  |
|                      | Low Battery                    |                                | Sounding every second  |                  |
|                      | Overload                       |                                | Sounding twice every second  |                  |
|                      | Fault                          |                                | Continuously Sounding  |                  |
| <b>DIMENSIONS</b>    | Tower Case (D x W x H) mm      |                                | 465 x 145 x 220  | 465 x 192 x 340  |
| <b>WEIGHT</b>        | Tower Case                     |                                | 17.5 kg  | 33 kg            |
| <b>ENVIRONMENT</b>   | Operating Environment          |                                | 0 - 40° C  |                  |
|                      | Relative Humidity              |                                | 20 - 90% (non-condensing)  |                  |
|                      | Noise Level                    |                                | <45 dB @ 1 meter   | <50 dB @ 1 meter |
| <b>INTERFACE</b>     | Smart RS-232                   |                                | Software supports Windows 95 / 98 / NT / 2000 / XP / ME, Linux, Sun Solaris, IBM AIX, Compaq True64, SGI IRIX, FreeBSD, HP-UX, and MAC |                  |
|                      | SNMP (option)                  |                                | Power management from SNMP manager and web browser   |                  |
| <b>WARRANTY</b>      | Standard                       |                                | 2 years  |                  |
| <b>MISCELLANEOUS</b> | Certifications                 |                                | ISO 9001:2000, ISO 14001:2004, UL1778, cUL   |                  |
|                      | UPC Bar Code                   |                                | 798302100343   | 798302100336     |
|                      | Country of Origin              |                                | China  |                  |

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DIGITAL  
CONTROL



AUTOMATIC VOLTAGE  
REGULATOR