



# LP33-LV 10K - 200K

## Low Frequency Online UPS LP33-LV Series

LP33-LV Series 10K - 200K (3ph in / 3ph out)



### Key Features:

- True double-conversion online technology
- Output PF-0.9
- DSP 100% micro controlled
- Strong overload capacity, 125% for 12minutes/150% for one minute
- Dual power supply(selectable)
- Accept 100% unbalanced load
- N+1 parallel redundant connection
- Cold start function
- High efficiency>92%
- Intelligent battery control
- Compatible with generators
- Good protections with Fast acting fuses in DC, Fans, Redundant power supplies, Temperature, Temperature sensors
- Powerful communication system(RS232.SNMP.GPRS)

### Application:

- Large IDC rooms, Industry, bank/securities settlement center, communication network management center, semiconductor product lines, large automation production, Laser cuttingmachine, highway and railway tunnels metal halide lamp lighting system etc.

**Shenzhen UPS EN Electronic CO.,Ltd.**  
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# Technical Specification:

| Specification \ Model                                         | LP33-LV 10K                                                                                                                                                                                        | LP33-LV 20K | LP33-LV 30K | LP33-LV 40K  | LP33-LV 50K | LP33-LV 60K |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------|
| <b>General</b>                                                |                                                                                                                                                                                                    |             |             |              |             |             |
| Capacity                                                      | 10KVA/9KW                                                                                                                                                                                          | 20KVA/18KW  | 30KVA/27KW  | 40KVA/36KW   | 50KVA/45KW  | 60KVA/54KW  |
| Features                                                      | Scalable Power / UPS Parallel With Another Of The Same Capacity And Brand / 100% Microcontroller / Redundantforced Ventilation / Immune To Phase Rotation Input / Dual Input Type Input (Optional) |             |             |              |             |             |
| Estimated Useful Life                                         | 15 Years                                                                                                                                                                                           |             |             |              |             |             |
| Efficiency Ac / Ac                                            | Greater Than 92%                                                                                                                                                                                   |             |             |              |             |             |
| Transfer                                                      | 0 Seg, No Transfer Time                                                                                                                                                                            |             |             |              |             |             |
| Invertir Technology                                           | True Online (Double Conversion), Inverter Based On Igbt's                                                                                                                                          |             |             |              |             |             |
| <b>Input</b>                                                  |                                                                                                                                                                                                    |             |             |              |             |             |
| Voltage (*)                                                   | 120 / 208 or 127 / 220 ± 20% (The Dimensions Could Change On Each Model).                                                                                                                          |             |             |              |             |             |
| Frecuency (*)                                                 | 50 or 60Hz ± 10%                                                                                                                                                                                   |             |             |              |             |             |
| Filters                                                       | Emi, Rfi                                                                                                                                                                                           |             |             |              |             |             |
| Lead Wires (*)                                                | 3 Phases + Neutral + Ground                                                                                                                                                                        |             |             |              |             |             |
| <b>Output</b>                                                 |                                                                                                                                                                                                    |             |             |              |             |             |
| Voltage (Selectable) (*)                                      | 120 / 208 or 127 / 220 ± 1% (The Dimensions Could Change On Each Model).                                                                                                                           |             |             |              |             |             |
| Frecuency                                                     | 50 or 60Hz ± 0.1%                                                                                                                                                                                  |             |             |              |             |             |
| Waveform Type                                                 | Sine Wave Generated By The Inverter With High Frequency Pwm                                                                                                                                        |             |             |              |             |             |
| Harmonic Voltage Distortion T.H.D                             | <2% For Linear Load / <5% For Non-Linear Load                                                                                                                                                      |             |             |              |             |             |
| Crest Factor                                                  | 3:1                                                                                                                                                                                                |             |             |              |             |             |
| Power Factor                                                  | From 0.9 Leading to 0.9 At Full Load.                                                                                                                                                              |             |             |              |             |             |
| Overload Recovery.                                            | The UPS Autotransferencia                                                                                                                                                                          |             |             |              |             |             |
| Isolation Transformer                                         | Dry Type. Voltage 208V / 120V or 127V / 220V                                                                                                                                                       |             |             |              |             |             |
| Voltage Regulation                                            | ± 1% For Balanced Load.                                                                                                                                                                            |             |             |              |             |             |
| Overload Capacity (*)                                         | 125% For 12 Minutes. / 150% For One Minute                                                                                                                                                         |             |             |              |             |             |
| Lead Wires (*)                                                | 3 Phases +Neutral+Ground                                                                                                                                                                           |             |             |              |             |             |
| <b>Batteries</b>                                              |                                                                                                                                                                                                    |             |             |              |             |             |
| Type (*)                                                      | 20 or 17pcs for 20 to 60Kva , 32pcs for 80 to 200Kva. Sealed And Maintenance Free. Technology Vrla (Valve Regulated Lead Acid)                                                                     |             |             |              |             |             |
| Autonomy At Full Load (*)                                     | 5 to 15 Minutes. Extended Range Capability.                                                                                                                                                        |             |             |              |             |             |
| Typical Recharge Time.                                        | 4 Hours 90%                                                                                                                                                                                        |             |             |              |             |             |
| Battery Management.                                           | Auto-Test, Adjustable Battery Transfer Point And Settings Of Alarm.                                                                                                                                |             |             |              |             |             |
| Battery Protection.                                           | Breaker Protection. Turn The System Off When The Battery Is Low. Battery Test. Smart Charger.                                                                                                      |             |             |              |             |             |
| Charger                                                       | Soft Start To Full Load. Current Limiter For Charging Batteries.                                                                                                                                   |             |             |              |             |             |
| <b>Protections</b>                                            |                                                                                                                                                                                                    |             |             |              |             |             |
| Hardware Protection                                           | Breaker (Termomagnetic) For Input, Output, Battery, Bypass, Fast-Acting Fuses In Dc And Bypass, Fan, Powerredundant Temperature Sensors, On-Off Switch, Audible Alarms.                            |             |             |              |             |             |
| Bypass                                                        | Static, Solid State, Automatic And Uninterrupted Operation Manual For Maintenance. External Bypass (Optional)                                                                                      |             |             |              |             |             |
| Emergency Breaker.                                            | Local Epo and / or Remote                                                                                                                                                                          |             |             |              |             |             |
| <b>Monitoring And Communications</b>                          |                                                                                                                                                                                                    |             |             |              |             |             |
| Front Panel                                                   | Lcd Display 4 Rows X 20 Columns For Reading Electrical Parameters. Touchscreen (Optional). Led Mimic.                                                                                              |             |             |              |             |             |
| Alarms                                                        | Audible And Visual Alarms For Non-Normal Conditions.                                                                                                                                               |             |             |              |             |             |
| Communications                                                | RS232 Serial Port. "SNMP-RJ45" For Remote Monitoring (Optional). Gprs Module For Remote Monitoring Viacellular Network (Optional).                                                                 |             |             |              |             |             |
| <b>UPS Conditions</b>                                         |                                                                                                                                                                                                    |             |             |              |             |             |
| Temperature                                                   | 0°C to 40°C                                                                                                                                                                                        |             |             |              |             |             |
| Relative Humidity.                                            | 0°C to 95% Noncondensing                                                                                                                                                                           |             |             |              |             |             |
| Audible Noise                                                 | <60 dB at 1.5 Meters Away                                                                                                                                                                          |             |             |              |             |             |
| <b>Batteries Conditions</b>                                   |                                                                                                                                                                                                    |             |             |              |             |             |
| Temperature                                                   | 0°C to 25°C                                                                                                                                                                                        |             |             |              |             |             |
| Relative Humidity.                                            | 0 to 95% Noncondensing                                                                                                                                                                             |             |             |              |             |             |
| <b>Dimensions And Weights</b>                                 |                                                                                                                                                                                                    |             |             |              |             |             |
| UPS Dimensions In mm (Front*High*Deep)                        | 540*1120*620                                                                                                                                                                                       |             |             | 660*1550*865 |             |             |
| Battery Cabinet Dimensions in mm (Front*High*Deep)            | 270*1125*774                                                                                                                                                                                       |             |             | 432*1550*897 |             |             |
| UPS Weight In "Kg"                                            | 225                                                                                                                                                                                                | 249         | 273         | 437          | 468         | 500         |
| Battery Cabinet Weight In "Kg"                                | 59                                                                                                                                                                                                 | 59          | 59          | 105          | 105         | 105         |
| *Product Specifications are Subject to Change Without Notice. |                                                                                                                                                                                                    |             |             |              |             |             |

# Technical Specification:

| Specification \ Model                                         | LP33-LV 80K                                                                                                                                                                                        | LP33-LV 100K | LP33-LV 120K | LP33-LV 160K   | LP33-LV 200K |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|----------------|--------------|
| <b>General</b>                                                |                                                                                                                                                                                                    |              |              |                |              |
| Capacity                                                      | 80KVA/72KW                                                                                                                                                                                         | 100KVA/90KW  | 120KVA/108KW | 160KVA/144KW   | 200KVA/180KW |
| Features                                                      | Scalable Power / UPS Parallel With Another Of The Same Capacity And Brand / 100% Microcontroller / Redundantforced Ventilation / Immune To Phase Rotation Input / Dual Input Type Input (Optional) |              |              |                |              |
| Estimated Useful Life                                         | 15 Years                                                                                                                                                                                           |              |              |                |              |
| Efficiency Ac / Ac                                            | Greater Than 92%                                                                                                                                                                                   |              |              |                |              |
| Transfer                                                      | 0 Seg, No Transfer Time                                                                                                                                                                            |              |              |                |              |
| Invertir Technology                                           | True Online (Double Conversion), Inverter Based On Igbt's                                                                                                                                          |              |              |                |              |
| <b>Input</b>                                                  |                                                                                                                                                                                                    |              |              |                |              |
| Voltage (*)                                                   | 120 / 208 or 127 / 220 ± 20% (The Dimensions Could Change On Each Model).                                                                                                                          |              |              |                |              |
| Frecuency (*)                                                 | 50 or 60Hz ± 10%                                                                                                                                                                                   |              |              |                |              |
| Filters                                                       | Emi, Rfi                                                                                                                                                                                           |              |              |                |              |
| Lead Wires (*)                                                | 3 Phases + Neutral + Ground                                                                                                                                                                        |              |              |                |              |
| <b>Output</b>                                                 |                                                                                                                                                                                                    |              |              |                |              |
| Voltage (Selectable) (*)                                      | 120 / 208 or 127 / 220 ± 1% (The Dimensions Could Change On Each Model).                                                                                                                           |              |              |                |              |
| Frecuency                                                     | 50 or 60Hz ± 0.1%                                                                                                                                                                                  |              |              |                |              |
| Waveform Type                                                 | Sine Wave Generated By The Inverter With High Frequency Pwm                                                                                                                                        |              |              |                |              |
| Harmonic Voltage Distortion T.H.D                             | <2% For Linear Load / <5% For Non-Linear Load                                                                                                                                                      |              |              |                |              |
| Crest Factor                                                  | 3:1                                                                                                                                                                                                |              |              |                |              |
| Power Factor                                                  | From 0.9 Leading to 0.9 At Full Load.                                                                                                                                                              |              |              |                |              |
| Overload Recovery.                                            | The UPS Autotransferencia                                                                                                                                                                          |              |              |                |              |
| Isolation Transformer                                         | Dry Type. Voltage 208V / 120V or 127V / 220V                                                                                                                                                       |              |              |                |              |
| Voltage Regulation                                            | ± 1% For Balanced Load.                                                                                                                                                                            |              |              |                |              |
| Overload Capacity (*)                                         | 125% For 12 Minutes. / 150% For One Minute                                                                                                                                                         |              |              |                |              |
| Lead Wires (*)                                                | 3 Phases +Neutral+Ground                                                                                                                                                                           |              |              |                |              |
| <b>Batteries</b>                                              |                                                                                                                                                                                                    |              |              |                |              |
| Type (*)                                                      | 20 or 17pcs for 20 to 60Kva , 32pcs for 80 to 200Kva. Sealed And Maintenance Free. Technology Vrla (Valve Regulated Lead Acid)                                                                     |              |              |                |              |
| Autonomy At Full Load (*)                                     | 5 to 15 Minutes. Extended Range Capability.                                                                                                                                                        |              |              |                |              |
| Typical Recharge Time.                                        | 4 Hours 90%                                                                                                                                                                                        |              |              |                |              |
| Battery Management.                                           | Auto-Test, Adjustable Battery Transfer Point And Settings Of Alarm.                                                                                                                                |              |              |                |              |
| Battery Protection.                                           | Breaker Protection. Turn The System Off When The Battery Is Low. Battery Test. Smart Charger.                                                                                                      |              |              |                |              |
| Charger                                                       | Soft Start To Full Load. Current Limiter For Charging Batteries.                                                                                                                                   |              |              |                |              |
| <b>Protections</b>                                            |                                                                                                                                                                                                    |              |              |                |              |
| Hardware Protection                                           | Breaker (Termomagnetic) For Input, Output, Battery, Bypass, Fast-Acting Fuses In Dc And Bypass, Fan, Powerredundant Temperature Sensors, On-Off Switch, Audible Alarms.                            |              |              |                |              |
| Bypass                                                        | Static, Solid State, Automatic And Uninterrupted Operation Manual For Maintenance. External Bypass (Optional)                                                                                      |              |              |                |              |
| Emergency Breaker.                                            | Local Epo and / or Remote                                                                                                                                                                          |              |              |                |              |
| <b>Monitoring And Communications</b>                          |                                                                                                                                                                                                    |              |              |                |              |
| Front Panel                                                   | Lcd Display 4 Rows X 20 Columns For Reading Electrical Parameters. Touchscreen (Optional). Led Mimic.                                                                                              |              |              |                |              |
| Alarms                                                        | Audible And Visual Alarms For Non-Normal Conditions.                                                                                                                                               |              |              |                |              |
| Communications                                                | RS232 Serial Port. *SNMP-RJ45* For Remote Monitoring (Optional). Gprs Module For Remote Monitoring Viacellular Network (Optional).                                                                 |              |              |                |              |
| <b>UPS Conditions</b>                                         |                                                                                                                                                                                                    |              |              |                |              |
| Temperature                                                   | 0°C to 40°C                                                                                                                                                                                        |              |              |                |              |
| Relative Humidity.                                            | 0°C to 95% Noncondensing                                                                                                                                                                           |              |              |                |              |
| Audible Noise                                                 | <60 dB at 1.5 Meters Away                                                                                                                                                                          |              |              |                |              |
| <b>Batteries Conditions</b>                                   |                                                                                                                                                                                                    |              |              |                |              |
| Temperature                                                   | 0°C to 25°C                                                                                                                                                                                        |              |              |                |              |
| Relative Humidity.                                            | 0 to 95% Noncondensing                                                                                                                                                                             |              |              |                |              |
| <b>Dimensions And Weights</b>                                 |                                                                                                                                                                                                    |              |              |                |              |
| UPS Dimensions In mm (Front*High*Deep)                        | 705*1418*1135                                                                                                                                                                                      |              |              | 1600*1962*1182 |              |
| Battery Cabinet Dimensions in mm (Front*High*Deep)            | 1063*930*2054                                                                                                                                                                                      |              |              | 1063*930*2054  |              |
| UPS Weight In "Kg"                                            | 730                                                                                                                                                                                                | 812          | 920          | 1540           | 2030         |
| Battery Cabinet Weight In "Kg"                                | 220                                                                                                                                                                                                | 228          | 235          | 240            | 245          |
| *Product Specifications are Subject to Change Without Notice. |                                                                                                                                                                                                    |              |              |                |              |