

## Transformerless Type



On-line UPS

**USE UPS POWER  
THREE-PHASE  
10K-80K  
100K-200K**

Customized logo here



10K(L)/15K(L)/20K(L)/  
30K(L)/40K(L)/60KL/8  
0KL 5" Touch LCD  
Panel



100KL/120KL/160  
KL/200KL 10"  
LCD Panel

### • DSP technology guarantees high reliability

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.

### • Output power factor 1 (Only for 10K-80K)

For critical applications, this 3-phase online UPS with output power factor 1.0 ensures higher efficiency and advanced performance.  
\* Power Factor 0.9 only for 100K-200K models

### • Active power factor correction in all phases

Power factor correction is active in all phases and it can improve the efficiency of input.

### • Dual Inputs

Galleon II 33 series is also available for optional dual inputs to support various inputs to have flexibility for system configuration.

### • 50Hz/60Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

### • ECO mode operation for energy saving

ECO mode improves the efficiency up to 98% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

### • Emergency power off function (EPO)

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

### • High overload capability

Supporting 110% overload capacity for 60 min and up to 1 min overload condition at 150% load.

### • Adjustable charging current

Users can adjust charging current via LCD setting based on applications.

### • Very powerful charger

Galleon II 33 series is built-in powerful charger to support long runtime applications when connecting to big capacity of external battery cabinet.

### • Parallel operation with common battery

The system can be operated in parallel, increasing the capacity and performance. Besides, this parallel UPS system can share common battery packs which might greatly reduce the expense and reach the same performance.

| Model               | USE UPS POWER<br>10K-80K | USE UPS POWER<br>100K-200K |
|---------------------|--------------------------|----------------------------|
| Max. parallel units | 6                        | 4                          |

### • Adjustable battery design

The number of connected batteries can be adjusted flexibly based on different power demands. This feature can allow UPS to keep running even when some battery packs are damaged.

### • Dynamic password feature optimizes service performance only for 10K-80K models

This dynamic password is automatically generated from our exclusive utility tool. Each time when it is required to change service-related settings, this utility tool would generate an unique password on time basis. It secures UPS from unexpected operation due to unauthorized settings.

### • Power walk-in function

Galleon II 33 is designed to have flexible power walk-in by way of adjusting the power walk-in time. This setting will optimize generator sizing and reduce the impact to the AC source by having different walk-in time period for different paralleled UPS system when AC grid is recovered.

## USE UPS POWER 3-phase in/3-phase out Online UPS Selection Guide

| MODEL                                | 10K (L)*  | 15K(L)                          | 20K (L)*                            | 30K (L)*                | 40K (L)          | 60KL                    | 80KL  | 100KL   | 120KL            | 160KL                   | 200KL             |     |
|--------------------------------------|---|---------------------------------|-------------------------------------|-------------------------|------------------|-------------------------|---|---|------------------|-------------------------|-------------------|-----|
| <b>PHASE</b>                         | 3-phase in / 3-phase out  |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| <b>CAPACITY</b>                      | 10KVA / 10KW  | 15KVA / 15KW                    | 20KVA / 20KW                        | 30KVA / 30KW            | 40KV / 40KW      | 60KVA / 60KW            | 80KVA / 80KW  | 100KVA / 90KW   | 120KVA / 108KW   | 160KVA / 144KW          | 200KVA / 180KW    |     |
| <b>PARALLEL CAPABILITY</b>           | up to 6 units in parallel   |                                 |                                     |                         |                  |                         | up to 4 units in parallel   |   |                  |                         |                   |     |
| <b>INPUT</b>                         |   |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Nominal Voltage                      | 3 x 380/400/415 VAC (3Ph+N)   |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Voltage Range                        | -30% ~ +20%   |                                 |                                     |                         |                  |                         |   | 208-478 VAC (3-phase) @ 70% load<br>305-478 VAC (3-phase) @ 100% load       |                  |                         |                   |     |
| Frequency Range                      | 40~70 Hz  |                                 |                                     |                         |                  |                         |   | 40~70Hz   |                  |                         |                   |     |
| Power Factor                         | ≥ 0.99 @ 100% Load  |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Harmonic Distortion (THDi)           | < 3% at full linear load  |                                 |                                     |                         |                  |                         |   | < 3% at full linear load  |                  |                         |                   |     |
| <b>OUTPUT</b>                        |   |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Output Voltage                       | 3 x 360*/380/400/415 VAC (3Ph+N)  |                                 |                                     |                         |                  |                         | 3 x 380/400/415 VAC (3Ph+N)   |   |                  |                         |                   |     |
| AC Voltage Regulation (Batt. Mode)   | ± 1%  |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Frequency Range (Synchronized Range) | 46~54Hz or 56~64Hz  |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Frequency Range (Batt. Mode)         | 50/60 Hz ± 1%   |                                 |                                     |                         |                  |                         | 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz  |   |                  |                         |                   |     |
| Current Crest Ratio                  | 3:1 (max.)  |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Harmonic Distortion                  | ≤ 1 % THD (Linear Load) ; ≤ 3 % THD (Non-linear Load)   |                                 |                                     |                         |                  |                         |   | ≤ 2% THD (Linear Load) ; ≤ 4% THD (Non-linear Load)                         |                  |                         |                   |     |
| Transfer Time                        | AC Mode to Batt. Mode   |                                 |                                     |                         |                  | Zero                    |   |   |                  |                         |                   |     |
|                                      | Inverter to Bypass  |                                 |                                     |                         |                  | Zero                    |   |   |                  |                         |                   |     |
| Waveform (Batt. Mode)                | Pure Sine wave  |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Overload Capability                  | 100-110% for 60 min, 111-125% for 10 min, 126%~150% for 1 min; >150% or 400ms                     |                                 |                                     |                         |                  |                         |   | 105-110% for 1 hr, 111-125% for 10 min, 126-150% for 1 min, >150% for 200ms |                  |                         |                   |     |
| <b>BYPASS</b>                        |   |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Nominal Voltage                      | 3 x 380/400/415 VAC (3Ph+N)   |                                 |                                     |                         |                  |                         | 3 x 380/400/415 VAC (3Ph+N)   |   |                  |                         |                   |     |
| Voltage Range                        | -30% ~ +20% (Adjustable)  |                                 |                                     |                         |                  |                         | -30% ~ +20%   |   |                  |                         |                   |     |
| Frequency Range (Synchronized Range) | 46~54Hz or 56~64Hz  |                                 |                                     |                         |                  |                         | +/- 1Hz, +/- 2Hz, +/- 4Hz (default: 4Hz)                                    |   |                  |                         |                   |     |
| Overload Capability                  | > 130% 1 minute (default)<br>Continuously working until breaker protection (optional)             |                                 |                                     |                         |                  |                         | 105-110% for 1 hr, 111-125% for 10 min, 126-150% for 1 min, >150% for 200ms |   |                  |                         |                   |     |
| <b>EFFICIENCY</b>                    |   |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| AC Mode                              | 96.0%   |                                 |                                     |                         |                  |                         | 94.0%   |   |                  |                         |                   |     |
| ECO Mode                             | 99.0%   |                                 |                                     |                         |                  |                         | 98.0%   |   |                  |                         |                   |     |
| Battery Mode                         | 96.0%   |                                 |                                     |                         |                  |                         | 93.0%   |   |                  |                         |                   |     |
| <b>BATTERY</b>                       |   |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Standard Model                       | Battery Type  | 12 V/9 Ah                       | 12 V/9 Ah                           | 12 V/9 Ah               | 12 V/7 Ah        | 12 V/9 Ah               | N/A   |   |                  |                         |                   |     |
|                                      | Numbers   | (10+10) pcs                     | (16+16) pcs                         | (16+16) pcs             | (16+16) pcs      | x 2 strings             |   |   |                  |                         |                   |     |
|                                      | Typical Recharge Time   | 9 hours recover to 90% capacity |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
|                                      | Charging Current (max.)   | 1A ~ 12A (Adjustable)           |                                     |                         |                  | 1A ~ 16 A (Adjustable)  |   |   |                  |                         |                   |     |
|                                      | Charging Voltage  | +/-136.5 VDC ± 10%              | +/-218 VDC ± 10%                    |                         |                  |                         |   |   |                  |                         |                   |     |
| Long-run Model                       | Battery Type  | Depending on the applications   |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
|                                      | Numbers   | +/- 10 pcs                      | +/-16 pcs ~ +/- 20 pcs (Adjustable) |                         |                  |                         |   |   |                  |                         |                   |     |
|                                      | Charging Current (max.)   | 1A ~ 12A (Adjustable)           |                                     |                         |                  | 1A ~ 16 A (Adjustable)  | 2A ~ 24 A (Adjustable)  | 2A ~ 32 A (Adjustable)  | 24A              | 32A                     | 40A               | 48A |
|                                      | Charging Voltage  | +/-136.5 VDC±10%                | +/-13.65V x N (N=16~20)             |                         |                  |                         |   | +/- 13.7V x N (N = 16~20)   |                  |                         |                   |     |
| <b>PHYSICAL</b>                      |   |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Standard Model                       | Dimension,DxWxH (mm)  | 630 x 250 x 826                 |                                     |                         | 815 x 300 x 1000 |                         | N/A   |   |                  |                         |                   |     |
|                                      | Net Weight (kgs)  | 124                             | 139                                 | 225                     | 250              |                         |   |   |                  |                         |                   |     |
| Long-run Model                       | Dimension,DxWxH (mm)  | 630 x 250 x 826                 |                                     |                         | 815 x 300 x 1000 |                         | 790 x 360 x 1010  |   | 940 x 567 x 1015 |                         | 1040 x 567 x 1452 |     |
|                                      | Net Weight (kgs)  | 28                              | 43                                  | 60                      | 67               | 108                     | 113   | 194   | 229              | 306                     | 340               |     |
| <b>ENVIRONMENT</b>                   |   |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Operation Temperature                | 0-40°C  |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Operation Humidity                   | < 95% and non-condensing  |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Altitude**                           | 0 ~ 1500m at full load  |                                 |                                     |                         |                  |                         |   | 0 ~ 1000m at full load  |                  |                         |                   |     |
| Noise Level                          | Less than 60dB @1 Meter   |                                 |                                     | Less than 63dB @1 Meter |                  | Less than 65dB @1 Meter |   | Less than 70dB @1 Meter   |                  | Less than 73dB @1 Meter |                   |     |
| <b>MANAGEMENT</b>                    |   |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Smart RS-232 / USB                   | Supports Windows <sup>®</sup> 2000/2003/XP/Vista/2008, Windows <sup>®</sup> 7/8/10, Linux and MAC |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |
| Optional SNMP                        | Power management from SNMP manager and web browser  |                                 |                                     |                         |                  |                         |   |   |                  |                         |                   |     |

\*If output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.

\*\*If the UPS is installed or used in a place where the altitude is higher than maximum height, the output power will be derated 1% per 100m. Product specifications are subject to change without further notice.

