



## KR33T Series

- » High efficiency up to 95%
- » Wide input voltage range
- » Galvanic isolation
- » High overload capacity
- » IGBT-based rectifier technology



Finance



Telecommunication



Data Center



Government



National Defense



Energy



Medical



Transportation

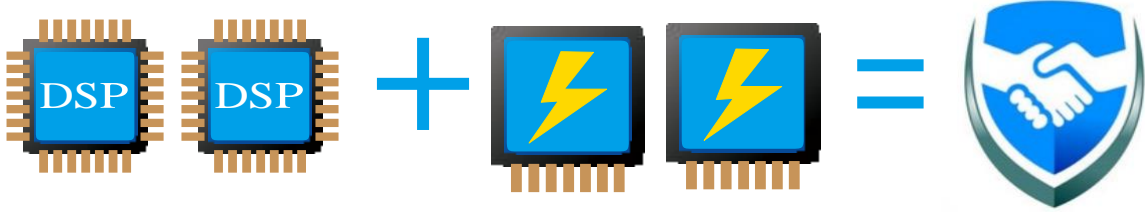
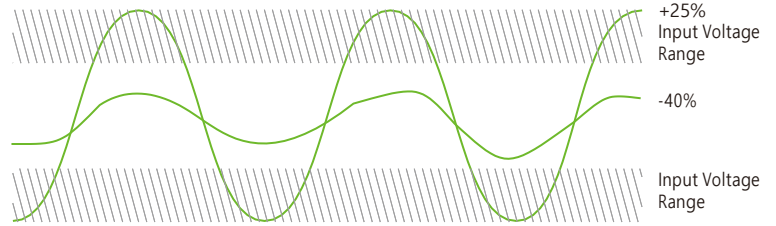


Electricity



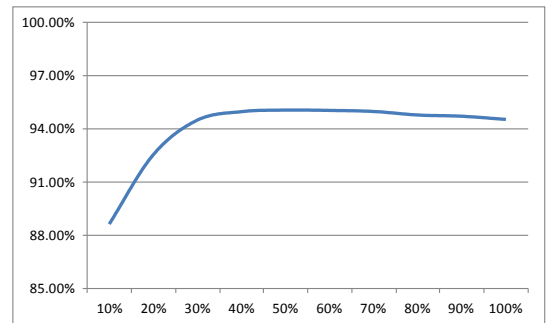
## High reliability

- Wide input voltage range ( -40%~+25%) assure high grid adaptability and prolong battery service life.
- Dual air ducts design shows better cooling performance
- Dual power and DSP redundancy design get higher reliability
- Water, Dust and Corrosion resistant coating in all PCB boards
- Robust EMC Performance due to electromagnetic shielding tech
- Intelligent fan speed control and failure detection function reduces the noise and prolongs fan service life



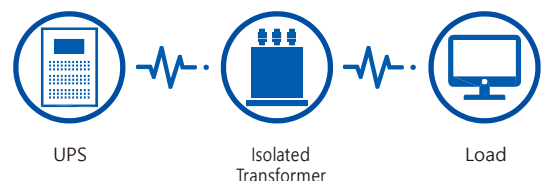
## Green power

- High input power factor (Up to 0.999) and low Input THDi: <2.0% at full load, much less grid pollution and costs
- Low output THDv: <0.5%, higher adaptability to precision instrument
- High efficiency in online mode >95% and ECO mode efficiency >99%. 50% load >94.74%
- Load Bus sync (LBS) control decrease transfer time and current impact of dual bus system.
- Self-aging test function without load enables on-site commission



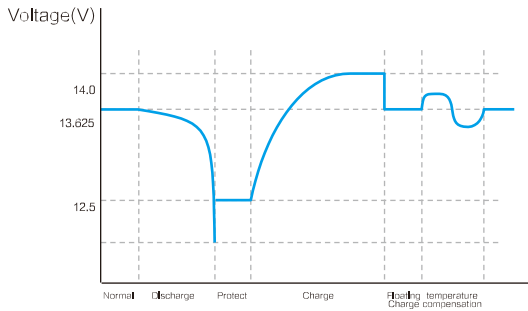
## Completed galvanic isolation

- Completed UPS output galvanic isolation for key components from the high voltage DC
- Full isolate from the external loads, reduce the harmonic disturbances
- Short circuit protection, restrain the high current puncture to UPS
- No effects to the UPS output performance or reduced impact of the inverter power components whilst supplying specific loads

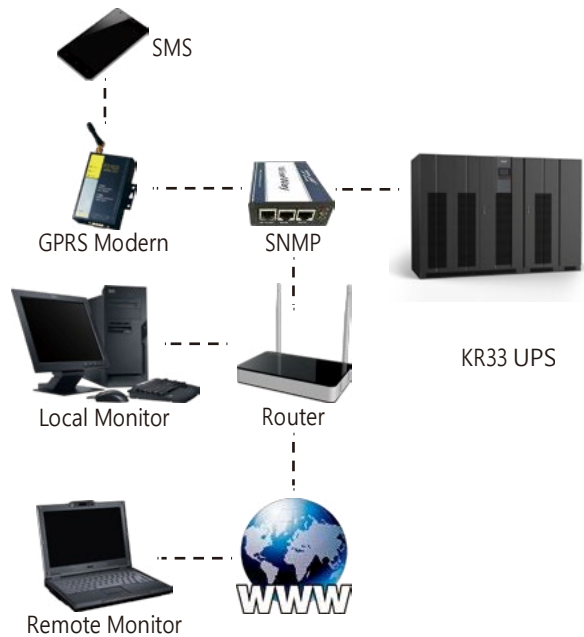


## Intelligent Management

- Intelligent SNMP and MOD BUS achieves local monitoring and remote monitor
- Intelligent battery management, automatic boosting and floating charge control
- Battery self-test function and battery temperature compensation function improve the battery performance and extend battery use life
- Smart programmable dry contact communication function
- Intelligent fan control according the load capacity reduces the noise and prolongs fan service life



Intelligent battery management



Automatic fans control

## Humanized Operation

- Easy operation with 7 inch LCD touch screen and LED on front door
- Easy to working modes setting by touch screen: Output voltage, Frequency, ECO mode, charging current and battery cells
- ON/OFF - Double Button design to prevent misoperation and touch screen failure
- EPO (Emergency Power off) button on front panel
- Large data storage capacity, 10000 pcs events logs



## More Options

- UPS management software
- SNMP & MODBUS communication
- IP grade upgrade & temperature sensor
- Lightning protection device C/D level
- Charging temperature compensation
- Input/bypass isolation transformer

## Technical Specifications

| MODEL                                   | KR33300T  | KR33400T | KR33500T                  | KR33600T |
|---|---|----------|---------------------------|----------|
| <b>Input</b>                            |   |          |                           |          |
| Rated voltage(V)                        | 380/400/415( settable)                          |          |                           |          |
| REC voltage range(Vac)                  | 228~475   |          |                           |          |
| Bypass voltage range                    | ±20%  |          |                           |          |
| Bypass frequency sync(Hz)               | 50/60±5%(±10% optional)                         |          |                           |          |
| Battery(VDC)                            | 480v (384V~504V, 32~42pcs 12V battery settable) |          |                           |          |
| Charging mode                           | Equalized and float Charging                    |          |                           |          |
| Charging current(A)                     | 20~100A   |          |                           |          |
| PF                                      | ≥0.999  |          |                           |          |
| THDi                                    | ≤2%(full load)                                  |          |                           |          |
| <b>Output</b>                           |   |          |                           |          |
| Voltage(V)                              | 380/400/415Vac±1%                               |          |                           |          |
| Frequency(Hz)                           | 50/60±0.02% (Battery mode)                      |          |                           |          |
| Load PF                                 | 0.9   |          |                           |          |
| THDV (Linear load),%                    | ≤0.5%   |          |                           |          |
| THDV (Non linear load),%                | ≤2%; (RCD load PF=0.8,≤6%)                      |          |                           |          |
| Crest factor                            | 3:1   |          |                           |          |
| Voltage Transient range                 | ±5%   |          |                           |          |
| 100% load system efficiency             | 95%   |          |                           |          |
| Power consume without load              | 4.785kw (INV); 2.736kw(ECO)                     |          | 5.745kw (INV) 4.34kw(ECO) |          |
| Frequency sync range                    | 45~55/54~66                                     |          |                           |          |
| Inverter overload                       | 130% 10min; 150% 1min;                          |          |                           |          |
| Inverter short circuit current-limiting | 1150A   | 1600A    | 1900A                     | 2300A    |
| Bypass overload                         | 130% long time;150% 10min;                      |          |                           |          |
| Transfer time(AC to DC)                 | 0   | 0        | 0                         | 0        |
| ECO/normal mode transfer time           | ≤10 ms  |          |                           |          |
| <b>Other</b>                            |   |          |                           |          |
| Maintenance Bypass                      | yes   |          |                           |          |
| Display                                 | Touch screen+ LED                               |          |                           |          |
| Communication port                      | RS232/485, dry contact (SNMP, MODBUS optional)  |          |                           |          |
| DC start function                       | Optional  |          |                           |          |
| Noise(dB)                               | 72dB  |          | 75dB                      |          |
| Working temp.(°C)                       | -5~40   |          |                           |          |
| Storage temp.                           | -20~55  |          |                           |          |
| Humidity                                | 0~95%   |          |                           |          |
| IP                                      | IP20 ( high level option)                       |          |                           |          |
| Approvals                               | EN62040-2:2006                                  |          |                           |          |
| Dimension(w×d×h)(mm)                    | 1600X1000X1800                                  |          | 2200X1000X1800            |          |
| Weight(kg)                              | 1400  | 1700     | 2300                      | 2400     |

\* Specification is subject to change without prior notice.



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