

Castle EX



Power Manager Expert

Castle EX Series is a three phase high frequency online UPS which utilizes the dual-conversion (AC-DC-AC) topology. This UPS series is broadly used in medium and small data exchange centre, network management centre and enterprise server centre. This series not only provides perfect solution for power source protection but also successfully solves problems such as power cut-off, AC high voltage, AC low voltage, instant voltage drop, damped oscillation, high-voltage pulse, voltage fluctuation, surge voltage, harmonic distortion, clutter interference and frequency fluctuation.

In Castle EX Series, each phase is independent and is double converted, that is converted from AC to DC and DC to AC in PFC and inverter circuit respectively. Meanwhile, the PFC controller is used for real-time control and data processing to ensure UPS work systematically. The intelligent charge mode prolongs the useful life of batteries and the dual line input structure strengthens the reliability. In addition, the EX Series increases the dust protection grade to let the UPS work in harsh environments.

Product Snapshot

Power Rating: 20kVA/30kVA/40kVA

Voltage: 400V L-L/220V L-N

Frequency: 50Hz/60Hz

Technology: Online Double Conversion

Excellent protection against dusty environments

The default protection grade achieves IP21 grade that is able to protect against moderate dust. To provide higher protection against dust and foreign bodies, additional filter is available.

N+X Redundancy

Without adding extra components, the castle ex series can resize maximum 8 UPS in parallel. N represents the minimum UPS number required for the total load and X is the redundant UPS number, the larger X is, higher will be reliability of the system.

Intelligent management of battery's charge and discharge

Charge parameters can be automatically adjusted according to different conditions. In addition, various optimized modes are available depending on the battery's type, number as well as the state. This prolongs the useful life of batteries.

The easy operation and maintenance function

The Castle EX series system is based on part-module design. System can be serviced from the front, which shortens the maintain time (MTTR).

Dual line input function

The Castle EX series UPS has options for dual or single AC source inputs.

High performance DSP processor

The high performance TI DSP processor makes data processing much more accurate and instant, which not only enhances the reliability of the UPS but also gives excellent output performance.

Excellent electrical performance

- The total efficiency (AC-AC) can reach up to 93%. In single UPS ECO mode, the total UPS efficiency can reach up to 98% which lowers the total cost of ownership for users.
- To meet the requirement of Asia Pacific Power Network, the Castle EX series has wide input range, from 210VAC to 475VAC.
- IGBT intelligent high-frequency technology utilization in rectifier and inverter, input power factor can exceed 0.99 and current harmonic distortion is less than 3 percent. The Castle EX series has powerful overload ability. It can normally operate under the 110-125% overload for 10 minutes and under 125-150% overload for 1 minute, with short circuit protection.

Flexible choice of battery number

The Castle EX series can adjust the number of batteries (32, 30 or 28) by setting the corresponding parameters. This helps the replacement of damaged batteries and solves the problem of a particular battery affecting the total useful life.

Technical Specifications

TYPE	CASTLE EX 20KS	CASTLE EX 30KS	CASTLE EX 30KS
Nominal Power	20kVA / 16kW	30kVA / 24kW	40kVA / 32kW
INPUT			
Voltage	210 ~ 475.0 VAC		
Frequency	40 ~ 70Hz (Self-adaptive to 50Hz and 60Hz)		
Phase	Three phase four wire +grounding		
THD i	<3%		
Power factor	>0.99		
Dual-line input	Support		
BATTERY			
Backup time	Depend on the number of external battery		
OUTPUT			
Voltage	220 x (1 ± 1%) VAC		
Frequency	50Hz / 60Hz		
Phase	Three phase four wire +grounding		
Power factor	0.8		
Overload capability	120% 10 min, 150% 1 min		
EFFICIENCY			
Line mode	93%		
Battery mode	93%		
ECO mode	98%		
Fan Intelligent modulation	Support		
DISPLAY			
LCD	UPS state and operation introduction input voltage, output voltage, current, frequency, charger voltage and current, fault and warning display		
LED	UPS operation state		
WARNING EQUIPMENT			
Buzzer alarm and light double glint			
COMMUNICATION INTERFACE			
RS-232, AS400, RS485, service, EPO, compensate interface for battery temperature, intelligent slot			
OPERATION ENVIRONMENT			
Temperature	0° C to 40° C		
Humidity	10% to 90%		
WEIGHT			
Net weight	82 Kg	90 Kg	90 Kg
Gross weight	113 Kg	130 Kg	130 Kg
Size W x D x H (mm)	420 x 663.5 x 956	500 x 700 x 1150	500 x 700 x 1150

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*Battery backup time is approx figure. Battery backup is proportional to number of power cycles and few other factors. Hence the battery time can vary to large extent based on the conditions. 1 year warranty.

For more product information please contact



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