

The seventh generation of Santak Castle series

CASTLE G7

Inheriting craftsmanship and striving for

excellence, the new generation of Castle series 1~3kVA



New generation Castle G7 1~3kVA

Product Introduction

The Castle series continues its 40-year design heritage, adhering to the design philosophy of "advanced technology, quality first." The new generation of Castle surpasses its predecessor, fully meeting users' needs for uninterrupted power while further enhancing performance, reliability, adaptability, user-friendliness, and flexible expansion.



Application Scenario

Enterprise file servers, key workstations, etc.

Distributed IT systems

Business office equipment

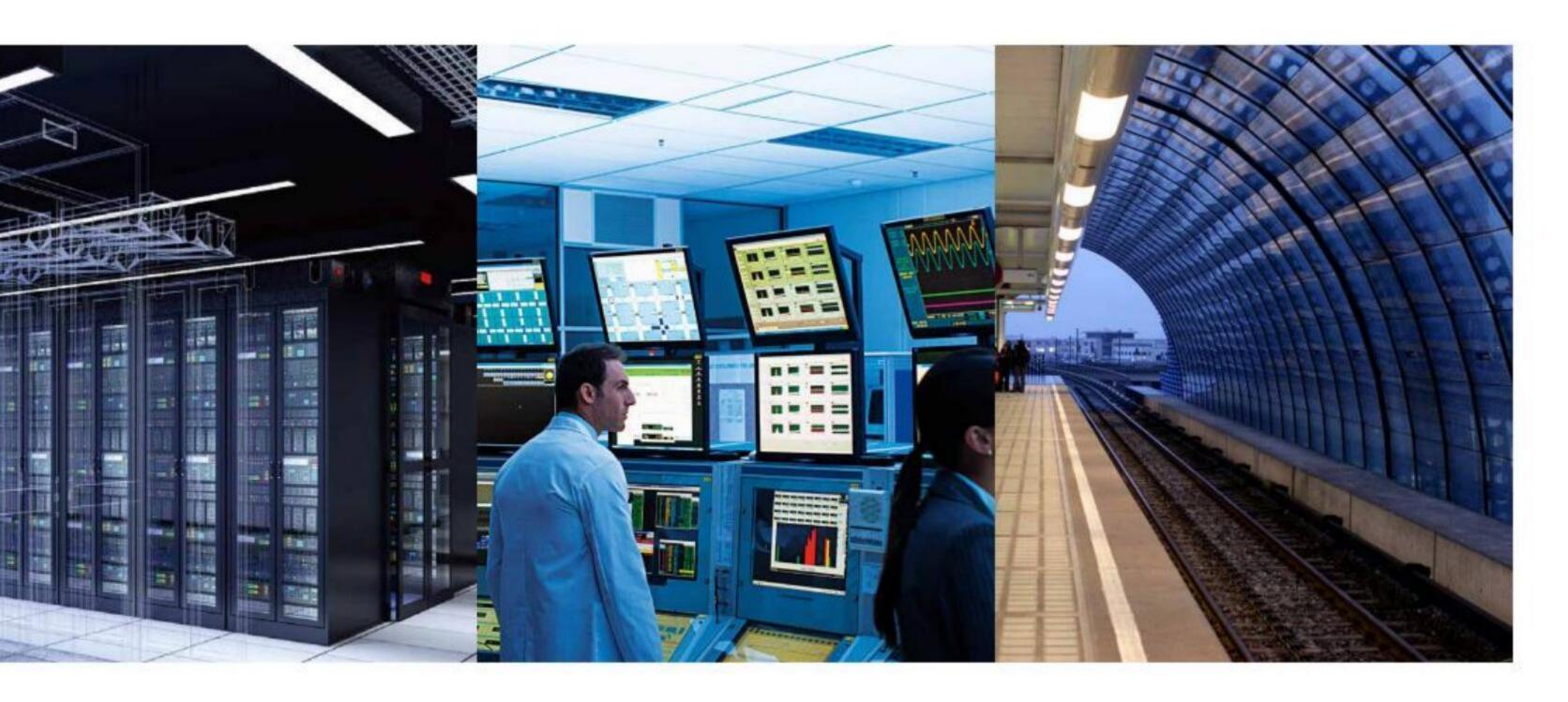
Home entertainment equipment

Manufacturing process control system

Supervisory control and data acquisition system

Track communication system

Embedded industry supporting





high performance

- 1.0 power factor, stronger load capacity
- Ultra-wide input range, 110Vac~300Vac
- Strong overload capacity, 125% overload for 10 minutes
- CQC energy-saving certification, Taier certification class 1 standard

Wide adaptation

- 40~70Hz wide frequency range, highly efficient generator adaptation
- Automatically identify grid frequency and automatically match output frequency
- CVCF constant voltage constant frequency mode, supports special voltage frequency equipment, adapts to high sensitivity

Sensing equipment

Less grid shock

- The power-on delay time can be set to flexibly respond to power grid fluctuations and start at off-peak times to reduce power outages.
- Smaller size, suitable for various installation environments

Smart Charging

- Long-lasting machine with maximum 8A charging and three-stage charging mode to increase charging speed
- Automatic temperature compensation for charging to prevent battery overcharging
- Support battery self-test settings and battery pack equalization settings to facilitate battery maintenance and management

Intelligent Management

- Support a variety of smart communication cards to meet various monitoring and management needs
- Remote monitoring and intelligent alarm push can be achieved through the "Santega" APP
- Multiple faults can be self-recovered to reduce human intervention
- Supports sleep mode, UPS can continue to communicate and receive remote

More user-friendly experience

Program Instructions

- New LCD screen, real-time monitoring, convenient operation, automatic screen off and wake-up,
 Absolute light pollution
- Silent mode can be set to turn off the buzzer to reduce alarm sound interference
- Automatic fan speed adjustment, low speed mode meets the library's first-level silent standard

Optional accessories list

Optional accasso ries	Material Number
Smart card slot	730-80405
NMC card (network monitoring card)	730-80349
CMC card (Modbus monitoring card)	730-80100
EMP (temperature and humidity acquisition module)	744-A2460
AS400 card (dry contact card)	730-80514
SPCC_N (CloudLink Network Card)	744-F0612
WLANdongle (CloudLink Wifi Module) Rack Rails	744-A4917
Rack rail	744-A4805
Handle-type hanging ear	744-A5571

Castle G7 Tower 1~3K Technical Specifications



model		C1K(G7)	C1KS(G7)	C2K (G7)	C2KS (G7)	C3K (G7)	C3KS(G7)		
Rated capacity		1KVA/1KW		2KVA/2KW		3KVA/3KW			
Input and output formats		Single-phase input, single-phase output							
enter	Input format	L+N+PE							
	Rated voltage	200Vac/208Vac/220Vac/230Vac/240Vac (default 220Vac)							
	Voltage range	110Vac~300Vac							
	frequency	40Hz~70Hz							
	Power Factor	≥0.99							
	Input harmonic distortion THDI	<5% @ non-linear full load							
	Bypass voltage	The default bypass mode is 187Vac~264Vac, and the default ECO mode is 198Vac~242Vac							
Output	Output format	L+N+PE							
	Rated voltage	Default 220Vac (200Vac/208Vac/220Vac/230Vac/240Vac can be set)①							
	Output frequency	50Hz/60Hz adaptive							
	Output socket	2*national standard socket (10A)		4*national standard sockets (10A)		4*national standard socket (10A) + Terminal blocks	3*National standard socket (10A) + terminal block		
	Efficiency @ mains mode	up to 90%		up to 91%		up to 93%			
	Power Factor	12							
	Voltage accuracy	±1%							
	Output harmonic distortion THDV	< 1%@linear full load							
	Overload capacity@mains model	≤105%, continuous operation and alarm 105% ~125%, switch to bypass and alarm after 10 minutes 125% ~150%, switch to bypass and alarm within 30 seconds >150% 100 milliseconds to bypass and alarm							
	Conversion time	0 milli se conds							
	Battery voltage	24Vdc	36Vdc	48Vdc	72Vdc	72Vdc	96Vdc		
Battery	Internal battery capacity	9AH	1	9AH	1	9AH	1		
	Backup time (Standard machine)	>3 minutes @PF=1 full load	d, >4 minutes @PF=0.9 full loa	ad					
	Charging current	1.5A	6A	1.5A	Default 4A, maximum 8A	1.5A	Default 4A, maximum 8A		
uman-Ma	show	LCD, three-color LED							
nterface	communication	Standard RS232, optional smart card slot and NMC card, CMC card, AS400 card, SPCC card							

Castle G7 Tower 1~3K Technical Specifications

model		C1K(G7)	C1KS(G7)	C2K (G7)	C2KS (G7)	C3K (G7)	C3KS(G7)			
environment	Operating temperature	0-40°C								
	Storage temperature	-25°C ~ 55°C (without battery)								
	relative humidity	0%~95% RH (no condensation)								
	Altitude	≤3000m (derating is required for altitudes >1000m) ⊚								
	IP rating	IP20								
Certification	Certification	Taier certification, CQC energy-saving certification								
	Industry Standards	YD/T 1095-2018,CQC3108-2011								
standard	EMC standards	GB/T 7260.2:2009, IEC 62040-2:2016 Low-frequency conduction and harmonics: Class A; electrostatic discharge, conducted interference immunity, and radiated interference immunity: Level 3; transient pulse interference, surge, and power frequency magnetic field immunity: Level 4								
	Machine size (width*depth*height mm)	144*347*229	102*349*229	190*391*297	102*392*298	190*391*297	102*392*298			
size	Net weight (kg)	9.4	4	17.4	5.4	23	5.6			
weight	Packing size (width*depth*height mm)	241*433*343	196*429*332	330*493*438	196*493*432	330*493*438	196*493*432			
	Gross weight (kg)	10.2	5	19.2	6.8	24.9	7			

① When the output is set to 200Vac/208Vac, the power needs to be derated by 10%

[@]When the temperature is >30°C, the output power factor drops to 0.9

③ When using at altitudes > 3000m, please consult the Santak service hotline