JCBENERGY
GENERATOR

CRYSTAL SERIE

SCAN ME

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CRYSTAL SERIES

ON-LINE
1-PHASE INPUT
1-PHASE OUTPUT

General Features

- High-frequency and double-conversion online technology
- Wide input voltage range
- Advanced PFC technology (Power Factor Correction)
- Very low total harmonic distortion (THD)
- Self-testing capability at startup
- Advanced battery management (ABM)
- Cold start feature (with fully charged batteries)
- Battery charging while UPS is off
- Lightning and surge protection feature
- Intelligent fan management based on load
- Additional backup time with batteries (optionel)
- Short circuit and overload protection
- EMI/RFI noise filter
- RS232 (SNMP optional)
- Shutdown & Restart capability through software

Control, Protection, and Communication

- High-temperature protection
- Fan test protection
- Protection against AC, L and N incorrect connections
- Output short circuit protection
- Silent operation; cold start; AC resart, automatic restart
- RS232, SNMP card, USB

Technical Specifications

1-10 kVA

Model		JCL 1000	JCL 2000	JCL 3000	JCL 6000	JCL 10000
Power (kva)		1 kVA	2 kVA	3 kVA	6 kVA	10 kVA
Nominal voltage		220V				
Frequency		50Hz/60Hz(oto)				
Input voltage range		110 ~ 300 VAC(half load). 140-300VAC (full load)				
Input frequency range		45-55 Hz ± 0,5% 50 Hz 55-65 Hz ± 0,5% 60 Hz				
Phase		Monophase + N + GND				
Power factor		≥0.98			≥0.99	
Input current (full load)		4.0A	8.1A	12.1A	24.2A	40.4A
THD		<5%				
Bypass voltage range		186VAC-252VAC				
Output						
Nominal voltage		Adjustacle from LCD/208VAC/220VAC/230VAC/240VAC				
Power factor		0,8				
Valtoge range		±2%				
Dc Voltage		≤1 Hz/s				
Crest Factor		3:01				
Frequency						
Ac Mode		Same as input frequency				
Battery mode		50/60±0.2Hz				
Pahese lock speed		≤1 Hz/s				
Waveform		100 % lineer load <3%; 100%; no llineer load <5%				
Transfer Time						
Grid to battery mode transition time		0ms				
Battery to grid mode transition time		0ms				
Grid to bypass mode transition time		≤4ms				
Bypass to grid mode transition time		≤4ms				
Normal operation mode to ECO mode transition time		≤10ms				
Sytem efficiency	Full load	%90			%92	
	ECO Mode	%94				
Inverter overload capacity		105%~150% 30s Alarm during bypass mode transition >150% 300ms Alarm during bypass mode transition				
Battery						
Battery type		Maintenance-Free Lead Acid Battery				
DC Voltage		24D VC	48V DC	72V DC	168V DC	168V DC
Battery quantitiy		7AH/12V	7AH/12V	7AH/12V	9AH/12V	9AH/12V
Charging		2	4	6	14	14
Charge						
Output voltage		27.5±0.4V	55±0.6V	82.5±0.9V	193.7±0.9V	193.7±0.9V
Charging method		3-Stage Charging				
Recharge time		90% capacity reached after 5 hours of charging Battery (for models with additional charger)				
Input voltage range		80VAC~300VAC				
Charging current		Standard Model:1A Model with Additional Charger: 6A (can be increased up to 12A)				
Software Features						
Status Analysis: UPS on/off, UPS operating status, data information history						
Display		LCD/LED				
Environmental Conditions For System Operation						
Operating environment	Operating temperature	0~40°C				
	Storage temperature	-25°C~55°C				
	Humidity	20~90% (non-condensing)				
	altitude	0m<altitude<1500m, above 15000m Reduced power				
Noise		<50db (1-3 kva) <55db(6-10 kva)				
Dimensions		357x144x21 5	439x190x34 1	439x190x34 1	515x262x455 (model with additional charger) 574x262x710 (standard model)	
Weight	Model with additional charger	6	12	12.5	42	
	Standard Model	10	20	24	52	

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