

DI Series

Online Low Frequency Transformer based UPS 1-30KVA (1/1 Phase, 3/1 Phase)

System Introduction

This UPS is a full-digitized with European MCU controlled single phase input/single phase output or 3 phase input /single phase output online UPS. It provides reliable, stable, and constant AC power for computer equipment, telecommunication devices, precision equipment instrument, and network termination equipment (NTE). UPS systems protects all these devices from losing data or information due to power outage, interruption or disruption to truly and comprehensively solve power issues, such as power outage, power surge, voltage sags, temporary over-voltage, temporary under voltage, frequency offset, power disturbances, switching transients, and harmonic wave distortion.



System Features

High Performance Index

- ◆ Advanced SCR Rectifier and IGBT Inverter Technology. Online 1/1 or 3/1 double conversion structure.
- ◆ Adapt with output isolated transformer technology to fit 200、220、230、240Vac, 50/60Hz Grid Systems;
- ♦ Wide Input Range from Single Phase 160-280Vac、3 Phase 286-475Vac , 50/60 Hz±5%, High Adaptive Capacity to Mains Grid
- ♦ High Overload Ability -- surge current protection technology to carry sudden impact for 0% to 100% load immediately without transfer to bypass;
- ◆ Overall Efficiency 85%. 98% under ECO Mode;
- ♦ Full-Digitized Non-master slave parallel redundancy technology. Parallel circumfluence ≤5%;
- ◆ Intelligent Charging Design. It equips with BAT low/over charged sensor to protect the charger. Real-time diagnosis on Battery status and response data simultaneously;
- ◆ Large Color Dot-matrix LCD+LED Screen with multi-functional keyboard to check system

 parameters, such as fault histories, operational statuses self-diagnosis periodically discharge settings, etc.
- ♦ Battery Self-testing can be done on the LCD directly. Battery Capacity, UPS working mode (Online or ECO) can be set on the screen. All history faults and statistics can be seen on the screen to help user analyze the working summary of the UPS.
- ♦ Monitoring can be done by WAN/LAN SNMP adapter or Cloud Monitoring Adapter. UPS equips with RS232, USB, EPO ports, and can choose RS485 and Dry-contact as optional accessories.
- ♦ Front to Rear Ventilation Design to reduce the defective rate of the product.
- ◆ Smart Size.



Safe and Reliable

- MCU control to operate all power conversion sessions during the operations, which has higher system reliability than traditional UPS systems.
- ◆ Output Isolated Transformer Built-in. It can reduce impacts and interferences from Load Harmonic Wave Current and N-Wire Voltage.
- Special Design on battery connectors to save the shock hazards from mis-operation;
- 90% of system components are from international brands. All devices has been aged and fully tested for at least 24 hours before leaving the factory.

Rich Optional Accessories

The System can use SNMP Network Adapter, RS485/Dry Contact, USB port, and EPO function to build up a remote control and monitoring system.

Technology Points

- ♦ MCU control provides higher system reliability than traditional UPS systems.;
- Wide Input Voltage and Frequency Range.;
- ◆ Non-Master Slave digital parallel redundancy feature;
- Advanced Battery Management system;
- High Overload Ability;
- Dot Matrix Color Screen for friendly and intuitive display;
- ◆ Online Double Conversion technology with output isolated transformer
- ◆ Smart Size compared to the same size of the UPS in the market. All UPS equipped with wheels.

Screen Details

Welcome Screen



Welcome screen to show Manufacturer and Logo

Main Page



- 1. UPS Working Diagram
 - 2. Working Mode: Online BAT、Bypass、ECO
 - 3. Input Voltage
 - 4. Output Voltage
 - 5. BAT Voltage
- 6. Output Frequency
- 7. Load %
- 8. Working (Days)
- 9. Serial Number
- 10. Calendar and Time

UPS Information Screen



- 1. Product Model
 - 2. Product Structure: 1/1 Phase Input/Output 3/1 Phase Input/Output
 - 3 Serial Number
 - 4. Version Number
 - 5. Working Days
 - 6. Serial Number
 - 7 Calendar and Time

Working Screen



- 1. I/P Status: Normal/Alarm
- 2. O/P Status: Normal/Alarm 12. Serial Number

11. Working Days

- 3. B/P Status: Normal/Alarm 13. Calendar
- 4. Load Status: Normal/Alarm
- 5. CHAR Status: Normal/Alarm
- 6. ECO Mode: Off/On
- 7. INV. Status: Normal/Alarm
- 8. Rect. Status: Normal/Alarm
- 9. INV Temp: °C
- 10. TX Status: Normal/Alarm

Setting Screen



- 1. BAT Test: User can test Battery status with selected Time period in 10s, 1 min, 5 Mins or deep cycle test.
 - 2. Set ECO mode
- 3. Set Time, Date and Language

Log Screen



- 1. Online Days: It means the time from UPS 1st Starts up till it completely shuts down
- 2. Working Days: It means the time from the 1st time installation till now.
- 3. Event Logs: It calculates the accumulated total time for code E01- E08 faults or abnormals

Log Screen 2



- 1. It shows the actual detail single log event in time and date upto in total 32 logs.
- 2. Serial number can also be found on the top of the screen for warranty claim
- 3. Time and date will also be shown

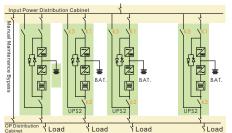
Log Screen 3

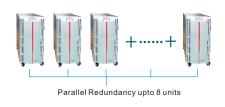


- 1. It shows the actual detail single log event in time and date upto in total 32 logs.
 - 2. Serial number can also be found on the top of the screen for warranty claim
 - 3. Time and date will also be shown

Specification

Model	DI10S/DI10L	DI20S/DI20L	DI30S/JY30L	DI60S/DI60L	DI80L	DI100L	DI150L			
Capacity	1KVA/0.8KW	2KVA/1.6KW	3KVA/2.4KW	6KVA/4.8KW	8KVA/6.4KW	10KVA/8KW	15KVA/12KVA			
		lachine Specificati	on							
UPS Structure		Double Conversion								
Appearance	Low Frequency with Output Isolated Transformer									
Overall Efficiency (AC-AC)	> 85%									
Noise (In 2 meters)	< 50dB									
Working Temp	-10-40℃									
Storage Temp	-25~60°C (Without Batteries)									
Humidity	<95%Non-Condensing									
Safety Standard	IEC62040									
Parallel Redundancy	Available									
Protections	Overload, Short-Circuit, Over Temp., Utility Power Voltage High/low, BAT Voltage High/low									
DC Start	Available									
Generator Compatibility	Available									
	LCD Display: Multi-Language with all kinds of messages. Input Output Status, ECO Mode Settings,									
Display	INV. Temp. TX Status Calendar, Time, Serial Number, Model, Structure, History Logs, Battery Test.									
	LED Indicators: UPS States Indicator									
Mute	Auto									
Cabinet Standard	IP20									
Cooling System	Intelligent Speed Control Cooling Fan									
Elevation	<1000M , Without Derated									
	Rectifi	er Specification								
Input Voltage	220/200/230/240Vac Single Phase									
Input Voltage Range	160-280Vac									
Input Frequency Range	50Hz±5%									
Soft-Start	>20 Sec	conds								
	Output	Specification								
Output Voltage	220/200	0/230/240Vac								
Output PF	0.8									
Output Voltage Regulation	220Vac±1%(Static Load) , 220Vac±2%(50~0% Sudden Change)									
Output Freq	50Hz±0).1% (BAT Mode)								
Distortion	<1% (Linear Full Load) , < 3% (Non-Linear Full Load)									
Frequency Tracking Range	46-54H	z								
Output Waveform	Pure Si	ne Wave								
Overload	> 125%: More than 1 Min; > 125%: More than 10 Mins; > 150%: More than 300ms > 150%: More than 1 Min									
Noise Suppression	EMI/RFI Wave Filter									
Crest Ratio	3:1									
Short-Circuit	Circuit Auto Protection, Output Voltage/Current 0									
Output Abnormal		tput Auto-Locked Pro								
	Bypass	Specification								
Static Bypass Transfer Time	0ms									
Static Bypass Range	220Vac	(-15~+15%)								
Frequency Range		±2Hz, ±3Hz Adjustat	ole							
Bypass -> INV Transfer Time	2ms									
Frequency Tracking Speed	0.5-2hz	r/s								
Manual Maintenance Bypass	None Available									
	Alaim	Specification								
Alarm		Power Fault, BAT Vo	ltage Low, Overload	I,UPS Fault						
Mute	Auto									
	Battery Specification									
Туре		Lead Acid Maintenan								
Model Rated Volts/Units	72Vdc /6Units	72Vdc/6Units	96Vdc /8Units	192Vdc or 96Vdc	192Vdc/16Units	192Vdc /16Units	192Vdc/16Units			
uilt-in BAT.Model Charging Current	1A	1A	1A	1A	1A	1A	1A			
xt. Model Charging Current	Std. 5A	Std. 5A	Std. 5A	Std. 5A	Std. 5A	Std. 5A	Std. 5A			
BAT Low		wn Protection unication Specifica	ation							
Communication Port				onal Accessory						
Remote Software	Rs232 (Std.); /SNMP/RS485/ Dry Contact (Optional Accessory) Multi-functional Monitoring System, Online and BAT Mode Status, BAT Fault, Remote Control									
		al Parameters								
Std. Size mm (W×D×H)				220×610×635						
Ext. Size mm (W×D×H)		220×510×395		220×610×475	220×610×715	220×610×715	220×610×715			
RM. Size mm (W×D×H)		$430 \times 580 \times 178/4U$		430×580×220/6U		430×600×266/8U				
Std. Net Weight Kg	37.5	38.5	49	84						
	22.5	23.5	29	44	63	60	70			
Ext. Net Weight Kg	22.0			43						





Specification

Model	DI60L31	DI100L31	DI150L31	DI200L31	DI300L31					
Capacity	6KVA/4.8KW	10KVA/8KW	15KVA/12KW	20KVA/16KW	30KVA/24KW					
	Host Machine Specific	cation								
UPS Structure	Online Double Conversion	on								
Appearance	Low Frequency with Output Isolated Transformer									
Overall Efficiency (AC-AC)	> 85%									
Noise (In 2 meters)	< 50dB									
Working Temp	-10-40℃									
Storage Temp	-25~60°C (Without Batte	eries)								
Humidity	<95%Non-Condensing									
Safety Standard	IEC62040									
Parallel Redundancy	Available									
Protections	Overload, Short-Circuit, Over Temp., Utility Power Voltage High/low, BAT Voltage High/low									
DC Start	Available									
Generator Compatibility	Available									
,	LCD Display: Multi-Language with all kinds of messages. Input Output Status, ECO Mode Settings,									
Display	INV Temp. TX Status Calendar, Time, Serial Number, Model, Structure, History Logs, Battery Test.									
Display										
Mute	LED Indicators: UPS States Indicator									
	Auto IP20									
Cabinet Standard Cooling System	Intelligent Speed Contro	I Cooling Fan								
Elevation	< 1000M , Without Derat									
Lievation	Rectifier Specification									
Input Valtage										
Input Voltage	380Vac ±25% 3 Phase									
Input Voltage Range	286-475Vac									
Input Frequency Range	50Hz±5%									
Soft-Start	>20 Seconds									
Output Valtage	Output Specification									
Output Voltage	220/200/230/240Vac									
Output PF	0.8 220Vac±1%(Static Load) , 220Vac±2%(50~0% Sudden Change)									
Output Voltage Regulation			iden Change)							
Output Freq	50Hz±0.1% (BAT Mode									
Distortion		, < 3% (Non-Linear Full Lo	ad)							
Frequency Tracking Range	46-54Hz									
Output Waveform	Pure Sine Wave									
Overload	> 125%: More than 1 Min ; > 150%: More than 300ms									
Noise Suppression	EMI/RFI Wave Filter									
Crest Ratio	3:1									
Short-Circuit	Circuit Auto Protection,	Output Voltage/Current 0								
Output Abnormal	INV. Output Auto-Locked Protection									
	Bypass Specification									
Static Bypass Transfer Time	0ms									
Static Bypass Range	220Vac (-15~+15%)									
Frequency Range	±1Hz, ±2Hz, ±3Hz可调									
Bypass -> INV. Transfer Time	2ms									
Frequency Tracking Speed	0.5-2hz/s									
Manual Maintenance Bypass	None			Avaiable						
	Alarm Specification									
Alarm	Utility Power Fault, BAT	Voltage Low, Overload, UPS	Fault							
Mute	Auto									
	Battery Specification									
Туре	Sealed Lead Acid Mainte	nance Free								
Model Rated Volts/Units	348-384Vdc/29-32 units									
Ext. Model Charging Current	5-10A	aajaataato								
BAT Low	Shutdown Protection									
DATEOW	Communication Speci	fication								
Communication Port		85/ Dry Contact (Optional)	Accessory)							
Remote Software		ng System, Online and BAT	• • • • • • • • • • • • • • • • • • • •	mote Control						
	Physical Parameters	5 y y 2 2711								
Ext. Size mm (W×D×H)	220×610×715	220×610×715	310×670×820	310×670×820	310×670×820					
Ext. C.20 mm (W.D.m)	67	22070107110	0.0.0.0.0.020	0.0.0.0.0.020	0.0.0.0.0×020					

Note: Specification are subject to change without further notice.

















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