

OnLine UPS system

DN-170106 / DN-170107

EAN 4016032473541 / 4016032473558



Overview

The DIGITUS® OnLine UPS systems are an ideal solution to protect sensitive devices such as server, industrial equipment, IT equipment, communication system and other networking equipment, which demand a thorough protection against power issues.

Features

- Rack/tower convertible
- Online Double Conversion with DSP control
- High input & output power factors
- N+X Parallel Redundancy
- Superior input voltage window for energy saving
- ECO mode
- Hot Swappable Battery
- Emergency Power Off
- Settable Battery Voltage
- Temperature controlled Fan
- Common Battery when UPS in parallel mode
- Versatile communication interfaces
- Cold Start
- Settable charge current
- Optional frequency converter mode supported
- Transformer module for Galvanic isolation

The 6kVA and 10kVA On-Line models does not include internal batteries and therefore an External battery pack (DN-170108) is required.

Technical Specifications

Capacity		6 kVA / 6 kW	10 kVA / 10 kW
Type		6 kVA	10 kVA
Input	Input mode	Single phase + Ground	
	Power factor	≥ 0.99	
	Rating voltage	208/220/230/230 Vac (can be set)	
	Rating frequency	50 Hz / 60 Hz (Auto sensing)	
	Voltage range	120 ~ 276 Vac	
	Frequency range	45 ~ 55 Hz/54 ~ 66 Hz	
	Bypass voltage range	220Vac max: 10%, 15%, 20% or 25%, default: 25% 230Vac max: 10%, 15% or 20%, default: +20% 240Vac max: +10% or 15%, default: +15% Min: 20%, 30% or 45%, default 45%	
	Bypass frequency range	±1%, ±2%, ±4%, ±5%, ±10%	
	THDI	≤3% (100% linear load, input THDV ≤1%) ≤5% (100% nonlinear load, input THDV ≤1%)	
Battery	Battery number	16/18/20 pcs (can be set)	
	Battery type	VRLA	
	Charge model	Boost charge or float charge auto switch	
	Charge time	Boost charge up to 20 Hr (max)	
	Charge current (A)	1A (S) / 10 A (H)	
Output	Output type	Single phase + Ground	
	Output precision	±1.0%	
	Voltage distortion (THD)	≤2% at 100% liner load	
		≤5% at 100% non-liner load	
	Rating voltage	208/220/230/240 Vac	
	Frequency precision	±0.1%	
	Rating frequency	50 Hz / 60 Hz	
	Frequency track speed	1 Hz/s	
	Overload	105% ~ 110%, 10 min	
		110% ~ 130%, 1 min	
		≥130%, 200 ms	
	Peek value factor	3:1	
	Efficiency at normal	Up to 93%	
	Dynamic respond	5.0%	
20 ms			
DC Component	≤500mV		
Switch time	Between normal mode and battery mode	0 ms	
	Between inverter and bypass	0 ms	
		Unlock: <15 ms (50 Hz), <13.33 ms (60 Hz)	
Noise	<55 dB (1m)		
Display	LCD + LED		
Safety	Meeting IEC 62040-1 GB4943		
Max. input voltage	320 Vac 1 Hr		
EMI	Conduction: IEC 62040-2		
	Radiation: IEC 62040-2		
	Harmonics: IEC 62040-2		
EMS	IEC 62040-2		
MTBF	250,000 Hr 1+1 400,000 Hr		
MTTR	30 min		

Isolation resistance	> 2M Ω (500Vdc)
Isolation intension	2820 Vdc <3.5mA 1 min
Surge	Meeting IEC60664-1 1.2/50uS+8/20uS 6kV/3kA
Protection	IP20
Parallel circumfluence	1+1 \leq 8%, N+1 \leq 3%
Parallel equal current	1+1 \leq 8%, N+1 \leq 10%