

DELTRONICS SATURN SERIES

DHP44 MODEL 3:3 phase PF 1.0
POWER RANGE: 50-200 KVA

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DELTRONICS



Deltronics Saturn Series 50-200 KVA

The Saturn DHP44 Series is a three-phase online double-conversion UPS with a true 1.0 power factor, engineered to deliver maximum stability in demanding applications. Its wide input voltage range and high efficiency—95.5% in online mode and up to 99% in ECO mode—ensure reliable performance even under significant power fluctuations.

It supports both VRLA and lithium battery systems and allows parallel operation of up to six units. The UPS handles fully inductive or capacitive loads, includes LBS functionality for synchronization between independent units, and offers multiple communication interfaces. Its robust design and compliance with international standards guarantee safe, dependable operation in industrial and corporate environments.

Features

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage ≥ 305 Vac
- High input power factor, it is up to 0.99
- 3-level inverter topology, the efficiency can be up to 95.5%
- Support parallel expanded operation: maximum is 6 units
- Support sharing batteries for the UPS in parallel
- Power Walk in function, reduces the start current impact to system, and reduce the capacity of generator
- Output power factor is 1.0, UPS can supply power to 100% unbalanced load
- High adaptability for load, it can connect full inductive load or capacitive load
- Compatible with VRLA or lithium battery
- LBS function can realize 2 independent UPSs work in synchronization, and enhance the reliability of the system
- Support USB, RS485, RS232, SNMP and dry contact card

Technical Specifications

MODEL	DHP44-50K	DHP44-60K	DHP44-80K	DHP44-100K	DHP44-120K	DHP44-150K	DHP44-160K	DHP44-180K	DHP44-200K	
Capacity (VA/W)	50k/50k	60k/60k	80k/80k	100k/100k	120k/120k	150k/150k	160k/160k	180k/180k	200k/200k	
INPUT										
Nominal Voltage (Vac)	380/400/415 (3Ph+N+PE)									
Operating Voltage Range (Vac)	138~305 for 40% load; 305~485 for 100% load									
Power Factor	≥0.99									
Harmonic Distortion (THDi)	≤3% Linear load									
Bypass Voltage Range (Vac)	Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -10%, -15%, -20%, -30%)									
Bypass Frequency Range (Hz)	50/60±10%									
OUTPUT										
Nominal Voltage (Vac)	380/400/415 (3Ph+N+PE)									
Voltage Regulation	±1%									
Output Frequency (Hz)	Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1); Bat. mode: (50/60±0.2%)									
Crest Factor	3:1									
Harmonic Distortion (THDv)	≤2% with linear load; ≤4% with non linear load									
Overload	Inverter Mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter							≤110% 60min, ≤125% 1min, >125% 1.2s shut down inverter	
	Bypass Mode	30°C: 135% for long term; 40°C: 125% for long term; >100%, 100ms								
EFFICIENCY										
AC Mode	Up to 95.5%									
ECO Mode	Up to 99%									
BATTERY										
Battery Type	VRLA/Li-ion									
Battery Voltage (Vdc)	360-600									
Charging Current(Max.)(A)	20		40			60				
ENVIRONMENTAL										
Operating Temperature (°C)	0 ~ 40									
Storage Temperature (°C)	-25~55 (No battery)									
Humidity Range	0~95% (Non condensing)									
Altitude (m)	1000, derating required when >1000									
Noise Level (dB)	<55	<58	<60	<62	<63	<64	<66	<66	<66	
PHYSICAL										
Dimension WxDxH (mm)	250×828×868			442×850×1200						
Weight (kg)	80	83	144	147	152	190	200	220	230	
STANDARDS										
Safety	IEC/EN 62040-1, IEC/EN 62477-1									
EMC	IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)									

1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design