

DS Hi-Power (DSHP) Series

60~200KVA
3Ph In / 1Ph Out

Application:

DSH II Series is suitable for industrial and facilities applications.



Industrial process and control system, industrial machinery, instrument and measurement, process monitoring and control, security and transport systems



Infrastructures (Hospital, airport, semiconductor, water treatment, metallurgy)



Energy industry (gas and oil, nuclear power)



Military application



ISOLATION TRANSFORMER
advantage of NOISE REJECTION



Features:

- **True online double conversion with DSP control**

Double conversion between input/output, battery and bypass are totally isolated power line noise, spikes and transients. A Digital Signal Processor (DSP) control provides an improved solution with high performance.

- **Robust electrical performance to prevent damage from top and bottom connections**

This UPS is designed to accept wide input voltage and frequency range to cope with the worst utility conditions. It can eliminate harmful distortion from utility power and withstand all kinds of severe impacts from various loads. It's capable to support heavy duty equipment, production equipment and DCS (Distributed Control System) system.

- **Fully coating PCBAs to withstand harsh environment**

The outside cabinet is designed only with locks without any screws and all PCBAs are coated for anti-moisture, anti-electric leakage, anti-dust and anti-corrosion. Its robust design is suitable for harsh environment with high temperature, high humidity, dense dust, salt, or fierce vibration.



- **Unique ventilation design for effective heat dissipation**

Unique ventilation design allows heat to rise by the process of convection. Therefore, the UPS cabinets can be added in parallel side by side for space-saving.



- **IGBT Charger for Improve Input Power Factor Correction**

Unique and efficient feature for input power factor correction

- **Flexible battery configuration adapts different applications**

The number of batteries can be adjusted flexibly according to different power demands.

- **Accepts dual-mains inputs**

DSH II Series is allowed to connect two separate power inputs to increase operation reliability.

- **Front access makes maintenance and replacement easy**

It's considerate to allow easy access to all of the electronic cards and power components in the unit through the front panel for further maintenance and replacement.



- **High short-circuit and overload**

This UPS is built-in high short-circuit protection. Once short circuit occurs, this mechanism will be activated. The load will stay protected and the UPS will remain intact. High overload protection supports 110% for 60 minutes and 125% for 10 minutes.

- **Easy integration into existing electrical networks or generator**

During wiring connection, DSH II Series UPS can be accessible either from top or from bottom under different environmental conditions. Besides, this UPS is fully compatible with generator.

- **Parallel capability up to 4 units**

Up to 4 units in parallel can be operated without adding additional hardware, increasing system capacity as well as operation reliability for power redundancy.



► Technical Specifications of DSH II Series 40 ~ 200KVA

MODEL	DSHII3140L18	DSHII3160L18	DSHII3180L18	DSHII31100L18	DSHII31120L18	DSHII31160L18	DSHII31200L18	
	DSHII3140L32	DSHII3160L32	DSHII3180L32	DSHII31100L32	DSHII31120L32	DSHII31160L32	DSHII31200L32	
Capacity (KVA)	40	60	80	100	120	160	200	
INPUT								
Voltage Range	380V / 400V / 415V AC \pm 20% (3Ph+N+PE)							
Frequency Range	50 / 60 Hz \pm 20% (Auto Sensing)							
OUTPUT								
Voltage Range	220V / 230V / 240V AC (\pm 1%)							
Frequency Range	Auto Sensing 50 / 60 Hz \pm 1~10% Sync Mode (Configurable), 50/60 Hz \pm 0.1 Hz Battery Mode							
Power Factor	0.8 Standard, (0.9 Optional)							
Crest Factor	3:1							
Efficiency	Up to 94% Dual Conversion Mode, 99% ECO Mode							
THD	< 2% Linear Load; < 4% Non-Linear Load							
Overload	\leq 110% for 60 Min, \leq 125% for 10 Min, \leq 15% for 1 Min, >150% for 300 ms							
BATTERY								
Battery voltage	220V DC / 384V DC							
Charging Current (Amp.)	10 ~ 40 Amp. (IGBT Based Charger)							
SYSTEM FEATURES								
IP Protection	IP 20							
Alarm / Protection	Short Circuit, Input Under/Over Voltage, Over Temperature, Over Current, Over Load, DC BUS Under / Over Voltage and Battery low							
Technology	DSP based, 6 Pulse Rectifier for 384V DC and 12 Pulse Rectifier for 220V DC							
Display	LED	Mains, Inverter, Bypass, Fault, Overload, Battery Mode and Battery low						
	LCD	I/O Voltage, Frequency, Battery Voltage, Mode, Load VA/W/A/%, Log Events and Temperature						
Parallel Card (Optional)	Yes							
ENVIRONMENT								
Temperature	Operating: 0~45°C, Storage: -10°C ~ 55°C							
Humidity / Altitude	0~95% RH Non-condensing / <1500 M							
Noise	Low Audible Noise level							
PHYSICAL								
Dimension DxWxH (mm)	384V DC	800x800x1800			800x1200x1800		800x1600x2200	
	220V DC	800x800x1800	800x1200x1800		800x1600x1800		800x2000x2200	
Net Weight (Kg)	384V DC	490	610	680	900	920	1100	1180
	220VDC	680	910	1010	1360	1620	1800	1990
STANDARDS								
Quality	ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, RoHS							
Safety	IEC/EN62040-1							
EMC / Performance	IEC/EN62040-2; IEC/EN62040-3, Complying to CE							
COMMUNICATION INTERFACE								
Standard	RS-232							
Optional	SNMP / ModBus / Dry Contact / USB / RS-485							
Monitoring Software	NetAgent Utility v5.8 / View Power / UPSilon 2000 / Muser 4000							

*Specifications are subject to change without prior notice.

