## Online UPS 1Phase Out



# **DS II Series**

10 ~ 40KVA 3:1 Phase

















#### High reliability design

Double conversion Online design, which makes the output a pure sine wave source with tracking frequency, phase-lock and voltage regulation, low distortion and without power fluctuation interference, providing the load with more comprehensive protection.

#### High reliability during operation

Pure online with static bypass technology, provides a strong protection against overload and fault.

Built-in manual maintenance bypass, further improves the reliability of continuous operation.

#### Strong protection for load

Built-in isolation transformer, strong antiinterference ability, provides more comprehensive protection.

### Wide input range

The range of AC input voltage is  $380V \pm 20\%$ , thereby it reduces the battery using frequency and greatly extending the battery

Wide input frequency range, ensure all type of generator compatible.

#### Comprehensive and reliable protection

Self-diagnostic function before start-up, avoid the risks that the failure may lead to.

The multi-protections such as overload, short circuit, over temperature, battery under voltage, battery over-charge and so on greatly ensure the system stability and reliability.

Built-in static electronic bypass switch, when UPS fail, it can transfer to bypass mode and continue to provide power to load.

#### Adoption of IGBT

Adoption of IGBT inverter & Charger saves energy & coupled with an isolation transformer, enhances the reliability and load adaptability.

#### Strong redundancy/parallel ability (DSII Series)

Same Unit can be directly connected in parallel, increasing the scalability of the system.

Non-fixed master-slave relationship: Among several UPS in parallel, the unit startup first is master UPS, the others are slave UPS. The master and slave can be exchanged. If the inverter of one UPS fail, the UPS will automatically cut off the output, then the load will be powered by remained

### User friendly network management

Communication with computer can be realized by RS-232 with corresponding monitoring software.

The various parameters can be shown on the communication interface.

#### **External SNMP adapter** (Optional)

The UPS with remote network management capability can provide real-time data for communication and management through a variety of network management systems.

#### **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.









### ► Technical Specifications of DS II Series 10~40KVA

NPUT	MODEL		DSII3110L16	DSII3115L16	DSII3120L16	DSII3125L16	DSII3130L16	DS3120L30	DSII3120L30	DSII3130L3	0 DSII3140L30	
Voltage Range	Capacity (KVA)		10	15	20	25	30	2	0	30	40	
Frequency Range	INPUT			'						'		
OUTPUT           Voltage Range         220V / 230V / 240V AC (± 1%)           Frequency Range         Auto Sensing 50 / 60 Hz ± 1-10% Sync Mode (Configurable), 50/60 Hz ± 0.1 Hz Battery Mode           Power Factor         3:1           Crest Factor           Efficiency         Up to 94% Dual Conversion Mode, 99% ECO Mode           Crest Factor           Battery           Up to 94% Dual Conversion Mode, 99% ECO Mode           Crest Factor           Battery           Up to 94% Dual Conversion Mode, 99% ECO Mode           Crest Factor           Battery Voltage         110% For 10 Min, 150% for 1 Min, 150% for 200 ms           Battery voltage         192V DC         360V DC           Charging Current (Amp.)         12 Amp.         10 ~ 40 Amp.           SYSTEM FEATURES         Time         Zero         Up 10 ~ 40 Amp.           SYSTEM FEATURES         Time         Zero         Up 10 ~ 40 Amp.           SYSTEM FEATURES           Transfer Time         Zero         Up 10 You You Sage, Seattery Voltage, Load, Temperature and fault           Alarm / Protection         Short Circuit, Input Under/ Yover Voltage, Over	Voltage Range		380V / 400V / 415V AC ± 20% (3Ph+N+PE)									
Voltage Range	Frequency Range		50 Hz / 60 Hz ±10% ( Auto Sensing)									
Protection   Auto Sensing 50 / 60 Hz ± 1-10% Sync Mode (Configurable), 50/60 Hz ± 0.1 Hz Battery Mode	OUTPUT	Т										
Power Factor	Voltage Range		220V / 230V / 240V AC (± 1%)									
Trest Factor	Frequency Range		Auto Sensing 50 / 60 Hz $\pm$ 1~10% Sync Mode (Configurable), 50/60 Hz $\pm$ 0.1 Hz Battery Mode									
### Efficiency	Power Factor		0.8 Standard, (0.9 Optional)									
THIDIT	Crest Factor		3:1									
Martery   Mar	Efficiency		Up to 94% Dual Conversion Mode, 99% ECO Mode									
## Battery voltage	THDV		< 2% (linear Load)									
Battery voltage	Overload		110% for 10 Min, 150% for 1 Min, 150% for 200 ms									
Charging Current (Amp.)  SYSTEM FEATURES  Transfer Time Zero  Display  LED Utility Status, Inverter, Bypass, Battery Status, UP5 Abnormal, Overload and Fault  LCD I/O Voltage, Frequency, Battery Voltage, Load, Temperature and fault  Alarm / Protection Short Circuit, Input Under/Over Voltage, Over Temperature, Over Current, Over Load, DC BUS Under / Over Voltage and Battery low  Parallel Card (Optional) Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes  ENVIRONMENT  Temperature Operating: 0-45°C, Storage: -10°C ~ 55°C  Humidity / Altitude O-95% RH Non-condersing / <1500 M  Noise Low Audible Noise Level  PHYSICAL  Dimension WXDXH (mm) 310x590x870 400x815x1100 300x815x830 405x656x817 432x821x115  Net Weight (Kg) 115 125 201 230 277 150 145 193 278  STANDARDS  Quality ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, ROHS  Safety LEC/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	BATTER	Υ	<u> </u>									
SYSTEM FEATURES  Transfer Time   LED  Utility Status, Inverter, Bypass, Battery Status, UPS Abnormal, Overload and Fault  LCD  I/O Voltage, Frequency, Battery Voltage, Load, Temperature and fault  Alarm / Protection  Short Circuit, Input Under/Over Voltage, Over Temperature, Over Current, Over Load, DC BUS Under / Over Voltage and Battery low  Parallel Card (Optional)  Yes  Yes  Yes  Yes  Yes  No  Yes  Yes  Yes  ENVIRONMENT  Temperature  Operating: 0-45°C, Storage: -10°C - 55°C  Humidity / Altitude  O-95% RH Non-condersing / <1500 M  Noise  Low Audible Noise Level  PHYSICAL  Dimension WxDxH (mm)  310x590x870  400x815x1100  300x815x830  405x656x817  432x821x115  Net Weight (Kg)  115  125  201  230  277  150  145  193  278  STANDARDS  Quality  ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, 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	Battery voltage		192V DC					360V DC				
Transfer   Time	Charging Current (Amp.)		12 Amp.					10 ~ 40 Amp.				
LED	SYSTEM	I FEATURES	1									
LCD	Transfer Time		Zero									
Alarm / Protection			Utility Status, Inverter, Bypass, Battery Status, UPS Abnormal, Overload and Fault									
Over Load, DC BUS Under / Over Voltage and Battery low	Display		I/O Voltage, Frequency, Battery Voltage, Load, Temperature and fault									
## Common	Alarm / Protection		Short Circuit, Input Under/Over Voltage, Over Temperature, Over Current, Over Load, DC BUS Under / Over Voltage and Battery low									
Temperature         Operating: 0~45°C, Storage: -10°C ~ 55°C           Humidity / Altitude         0~95% RH Non-condersing / <1500 M           Noise         Low Audible Noise Level           PHYSICAL           Dimension WxDxH (mm)         310x590x870         400x815x1100         300x815x830         405x656x817         432x821x115           Net Weight (Kg)         115         125         201         230         277         150         145         193         278           STANDARDS           Quality         ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, 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	Parallel Card (Optional)		Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	
Humidity / Altitude	ENVIRO	ONMENT	1	l	1	1	1			1	_	
Low Audible Noise Level           PHYSICAL           Dimension WxDxH (mm)         310x590x870         400x815x1100         300x815x830         405x656x817         432x821x115           Net Weight (Kg)         115         125         201         230         277         150         145         193         278           STANDARDS           Quality         ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, 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	Temperature		Operating: 0~45°C, Storage: -10°C ~ 55°C									
PHYSICAL           Dimension WxDxH (mm)         310x590x870         400x815x1100         300x815x830         405x656x817         432x821x115           Net Weight (Kg)         115         125         201         230         277         150         145         193         278           STANDARDS           Quality         ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, 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	Humidity / Altitude		0~95% RH Non-condersing / <1500 M									
Dimension WxDxH (mm)         310x590x870         400x815x1100         300x815x830         405x656x817         432x821x115           Net Weight (Kg)         115         125         201         230         277         150         145         193         278           STANDARDS           Quality         ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, RoHS           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	Noise		Low Audible Noise Level									
Net Weight (Kg)         115         125         201         230         277         150         145         193         278           STANDARDS           Quality         ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, 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	PHYSIC	AL	<u>'</u>									
Quality ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, 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	Dimension WxDxH (mm)		310x590x870 400x815x1100					300x815x830	405x6	56x817	432x821x1159	
Quality ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, 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	Net Weight (Kg)		115	125	201	230	277	150	145	193	278	
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	STANDA	ARDS			•					'		
EMC / Performance IEC/EN62040-2; IEC/EN62040-3, Complying to CE  COMMUNICATION INTERFACE  Standard RS-232  Optional SNMP / ModBus / Dry Contact / USB / RS-485	Quality		ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, RoHS									
COMMUNICATION INTERFACE  Standard RS-232  Optional SNMP / ModBus / Dry Contact / USB / RS-485	Safety		IEC/EN62040-1									
Standard RS-232 Optional SNMP / ModBus / Dry Contact / USB / RS-485	EMC / Performance		IEC/EN62040-2; IEC/EN62040-3, Complying to CE									
Optional SNMP / ModBus / Dry Contact / USB / RS-485	сомми	UNICATION INTE	RFACE									
	Standard		RS-232									
Monitoring Software NetAgent Utility v5.8 / View Power / UPSilon 2000 / Muser 4000	Optional			SNMP / ModBus / Dry Contact / USB / RS-485								
	Monitor	ring Software			NetAgent	t Utility v5.8 / V	iew Power / UF	Silon 2000 / Mi	user 4000			

<sup>\*</sup>Specifications are subject to change without prior notice.



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