DATWYLER UPS - 6~10 kVA (1:1 Phase)
Tower / Rack Mounted

OVERVIEW

Datwyler´s DUPS series is the small to medium power transformerless UPS. The series is designed to a high standard and can be improved based on client's technical and budget customization requirements.

APPLICATION

This Uninterruptible Power Supply (UPS) offers guaranteed power protection for connected electronics. When power is interrupted or fluctuates outside the safe levels, UPS will instantly provides a clean battery backup power and surge protection for connected and sensitive devices.

TECHNICAL FEATURES

- Online double conversion
- No output transfer time
- PFC technology
- Full digital control (DSP)
- Output power factor: 0.9
- Input current harmonic: 3%
- ECO function
- Charging/Rectifier/Inverter fully digital control technology
- Optimization battery group, the quantity of battery: 16/18/20 pieces (optional)
- Wide input voltage range: 120~276VAC
- Wide input frequency range: 45~55Hz / 54~66Hz±0.5Hz
- Self-testing when UPS startup
- Input over / under voltage protection
- Automatic bypass
- Cold Start
- Communication port: RS-232 / USB
- Options: SNMP card / Relay card

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SPECIFICATIONS

MODEL		40014800ZY	40014900ZY
Capacity (VA/Watts)		6k / 5.4k	10k / 9k
INPUT			
Nominal voltage		220 / 230 / 240Vac (L + N + PE)	
Operating voltage range		120 ~ 276Vac	
Operating frequency range		45 ~ 55Hz / 54 ~ 66Hz ± 0.5Hz	
Power factor		≥ 0.99	
Bypass voltage range		220V : + 25% (optional +10%,+15%, +20%) 230: + 20% (optional +10%,+15%) 240: + 15% (optional +10%) Min. voltage: - 45% (optional -20%,-30%)	
ECO range		Same as bypass	
Bypass frequency range		Frequency protection range:±10%	
Harmonic distortion (THDi)		≤3% (100% linear load)	
Generator input		Support	
OUTPUT			
Output voltage		220 / 230 / 240Vac	
Power factor		0.9	
Voltage regulation		± 2%	
Frequency	Line mode	±1% / ±2% / ±4% / ±5% / ±10% of the rated frequency(optional)	
	Bat. mode	50 / 60（±0.1)Hz	
Crest factor		3 : 1	
Harmonic distortion (THDv)		≤ 2% with linear load ≤ 5% with non linear load	
Waveform		Pure sinewave	
E ciency		> 93.5%	
BATTERY			
Battery voltage		Optional Voltage : ±96 / ±108 / ±120Vdc	
Typical recharging time		6 ~ 8 hours (to 90% of full capacity)	
Back up time		Long run unit depends on the capacity of external batteries Estimated remaining time displayed on the LDC	
Charging current		Maximum current 10A; Charging current can be set according to battery capacity installed.	
SYSTEM FEATURES			
Transfer time		Utility to battery : 0ms; Utility to bypass: 0ms	
Overload	Line mode	Load ≤110% : last 60min; ≤125% : last 10min; ≤150% : last 1min; ＞150% turn to bypass mode	
	Bypass mode	40A(Input breaker)	63A(Input breaker)
Short circuit		Hold Whole System	
Overheat		Line mode: Switch to bypass; Backup mode: Shut down UPS immediately	
Battery low		Alarm and switch o	
Self-diagnostics		Upon power on and software control	
EPO (optional)		Shut down UPS immediately	
Battery		Advanced battery management	
Noise suppression		Complies with EN62040-2	
Audible & Visual alarms		Line failure, Battery low, Overload, System fault	
Status LED & LCD display		Line mode, Backup mode, Eco mode, Bypass mode, Battery under voltage, Battery bad, Overload & UPS fault	
Reading on the LCD display		Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time	
Communication interface		USB, RS232，Parallel port, SNMP card / Relay card (optional)	
ENVIRONMENT			
Operating temperature		0 ~ 40℃	
Storage temperature		-25 ~ 55℃	
Humidity range		0 ~ 95% (Non condensing)	
Altitude		<1500m	
Noise level		<55dB	
PHYSICAL			
Dimension W × H × D (mm)		443 × 131 × 580 (3U)	
Net weight (kg)		23	25
STANDARDS			
Safety		IEC ／ EN62040 - 1，IEC ／ EN60950 - 1	
EMC		IEC / EN62040 - 2, IEC61000 - 4 - 2, IEC61000 - 4 - 3, IEC61000 - 4 - 4, IEC61000-4 - 5, IEC61000 - 4 - 6, IEC61000 - 4 - 8	
BATTERY BANK			
Battery type & Model		Lead acid 12V (MP-BR Battery Bank Series)	
Max.quantity		7Ah × 20	9Ah × 20
PHYSICAL OF BATTERY BANK			
Dimensions D × W × H (mm)		720 × 443 × 131 (3U)	
Net weight (kg)		56	62

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EXTERNAL BATTERY MODULE		
MODEL	40015300ZY	40015400ZY
Installation	Tower or/2U Rack Mounted	
Battery type	12V/9AH	
Number of Batteries	20 Pcs	
Supporting UPS	6kVA	10kVA
Back up Time* (Minutes)	5	3

For more backup time , Please refer to backup time configuration sheet for more details

Ordering Information:

Article	Item Description
40014800ZY	6 kVA Online UPS, Rotable LCD screen, I/O Single Phase 230V, W/O Batteries(2 Years Warranty)
40014900ZY	10 kVA Online UPS, Rotable LCD screen, I/O Single Phase 230V, W/O Batteries(2 Years Warranty)
40015600ZY	Rail Kit for 6 & 10 kVA UPS.
40015800ZY	SNMP Card for(6-20 kVA) UPS, USB & RS-232 ports.
40015300ZY	6kVA Battery Back Module, Tower or/2U Rack Mounted (Additional Accessories)with Built in 20 X12V/9AH batteries (5 Minutes), (1 Year Warranty)
40015400ZY	10kVA Battery Back Module, 2 Tower or/2U Rack Mounted (Additional Accessories)with Built in 20X12V/9AH batteries (3 Minutes), (1 Year Warranty)

Packaging dimension differ based on actuals or customised packing requests.