



DATWYLER UPS

UNINTERRUPTIBLE
POWER
SUPPLY

SUSTAINABLE POWER PROTECTION
FOR YOUR IT INFRASTRUCTURE

2024



DATWYLER

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An Uninterruptible Power Supply is crucial in today's digital era most especially the businesses' operational activities are heavily dependent on electronic systems and IT infrastructure. UPS plays a significant role in ensuring that the organisation's overall activities run seamlessly, and without interruption.

The Datwyler Uninterruptible Power Supply (DUPS) series provides small to medium power transformerless UPS.

It offers guaranteed power protection for connected electronics. When power is interrupted or fluctuates outside the safe levels, the Datwyler UPS instantly provides a clean battery backup power and surge protection for connected and sensitive devices. It is also designed to a high standard that can be customized based on the customer's technical and budget requirements.



WHY DATWYLER UPS?

- Higher efficiency
- Fully digital control
- Intelligent monitoring
- Flexible battery configuration
- Safe and reliable protection
- Intelligent charging method

TYPICAL INDUSTRY APPLICATIONS



Rapidly maturing markets:

- . Data centres
- . Office buildings
- . Government buildings
- . Retail
- . Education
- . Logistics
- . Healthcare
- and many others

DATWYLER UPS

10~50 KVA (3 PHASE)

TOWER / RACK MOUNTED

Technical features

- Online double conversion
- Power factor (PF=1.0)
- Cold start
- Full digital control (DSP)
- Intelligent monitoring function
- Supports economic (ECO) operation mode
- Parallel redundancy function
- Three level inverter topology
- Estimated remaining time displayed on the LCD
- Power saving
- Safe and reliable protection
- Flexible battery configuration
- Load Bus Synchronization (LBS) function
- Intelligent charging method
- Strong load capacity
- Flexible installation
- Communication port: RS-232 / USB (optional SNMP card)



Technical data

MODEL	40070000ZY	40070100ZY	40070200ZY	40070300ZY	40070400ZY	40070500ZY	40070600ZY
Capacity (VA/Watts)	10,000	15,000	20,000	25,000	30,000	40,000	50,000
INPUT							
Nominal voltage	380/400/415 VAC, (3Ph+N+PE)						
Operating voltage range	138~485 VAC						
Frequency range	40Hz-70 Hz (auto-detect)						
Power factor	≥0.99						
OUTPUT							
Output voltage	380/400/415 VAC, (3Ph+N+PE)						
Power factor	1.0						
Harmonic distortion	≤2% with linear load and ≤4% with non linear load						
Voltage regulation	±1%						
SYSTEM FEATURES							
Transfer time	Utility to battery : 0 ms; utility to bypass: 0 ms						
Protection	Short circuit, overload, overtemperature, battery low, fan fault alarm						
Overload	Load ≤110%: lasts 60 min, ≤125%: lasts 10 min, ≤150%: lasts 1 min						
Backfeed	Support						
Alarm	Overload, utility abnormal, UPS fault, battery low, etc.						
PHYSICAL							
Standard model	Dimensions (DxWxH)	670 × 440 × 130 (3U)				800 × 440 × 175 (4U)	
	Net weight	25	27~28		45	48	
ENVIRONMENT							
Humidity	20-90% RH @ 0-40 °C (non-condensing)						
Noise level	<55 dB			<56 dB		<58 dB	

DATWYLER UPS

6~10 KVA (1:1 PHASE)

TOWER / RACK MOUNTED

Technical features

- Online double conversion
- Power factor (PF=0.9)
- Cold start
- Full digital control (DSP)
- Intelligent monitoring function
- Efficiency up to 93.5%
- Supports economic (ECO) operation mode
- Input current harmonic: 3%
- ECO function
- Batteries: 16, 18 or 20 pieces (optimised)
- Wide input voltage range: 120~276 VAC
- Wide input frequency range: 45~55 Hz / 54~66 Hz \pm 0.5 Hz
- Input over/under voltage protection
- Communication port: RS-232 / USB (optional SNMP card)



Technical data

MODEL	40014800ZY	40014900ZY
Capacity (VA/Watts)	6k / 5.4k	10k / 9k
INPUT		
Nominal voltage	220 / 230 / 240 VAC (L+N+PE)	
Operating voltage range	120 ~ 276 VAC	
Operating frequency range	45 ~ 55 Hz / 54 ~ 66 Hz \pm 0.5 Hz	
Power factor	\geq 0.99	
OUTPUT		
Output voltage	220 / 230 / 240 VAC	
Power factor	0.9	
Efficiency	$>$ 93.5%	
Frequency	Line mode	\pm 1% / \pm 2% / \pm 4% / \pm 5% / \pm 10% of the rated frequency (optional)
	Battery mode	50 / 60 (\pm 0.1) Hz
Harmonic distortion (THDv)	\leq 2% with linear load	
	\leq 5% with non-linear load	
SYSTEM FEATURES		
Transfer time	Utility to battery : 0 ms / utility to bypass: 0 ms	
Overload	Line mode	Load \leq 110% : lasts 60 min; \leq 125% : lasts 10 min \leq 150% : lasts 1 min; $>$ 150% : turns to bypass mode
	Bypass mode	40 A (input breaker) 63 A (input breaker)
Short circuit	Hold whole system	
Overheat	Line mode: switch to bypass; Backup mode: shut down UPS immediately	
Battery low	Alarm and switch off	
Self-diagnostics	Upon power on and software control	
EPO (optional)	Shut down UPS immediately	
Battery	Advanced battery management	
Noise suppression	Complies with EN 62040-2	
Audible and visual alarms	Line failure, battery low, overload, system failure	
PHYSICAL		
Dimensions (W x H x D)	443 x 131 x 580 mm (3U)	
Net weight (kg)	23	25
PHYSICAL OF BATTERY BANK		
Dimensions (D x W x H)	720 x 443 x 131 mm (3U)	
Net weight (kg)	56	62

DATWYLER UPS

1~3 KVA (1:1 PHASE)

TOWER / RACK MOUNTED

Technical features

- Online double conversion
- Power factor (PF=0.9)
- Cold start
- Full digital control (DSP)
- Intelligent monitoring function
- Efficiency up to 90%
- Supports economic (ECO) operation mode
- Input current harmonic: 3%
- Estimated remaining time displayed on the LCD
- Hot swappable battery pack
- Emergency power off system
- Settable frequency converter mode
- Flexible installation
- Communication port: RS-232 / USB (optional SNMP card)



Technical data

MODEL		40014640ZY	40014650ZY	40014700ZY
Capacity (VA/Watts)		1000 / 900	2000 / 1800	3000 / 2700
INPUT				
Nominal voltage		200/208/220/230/240 VAC or 100/110/115/120/127 VAC		
Input voltage range		55~150 VAC or 110~300 VAC @ 60% load, 80~145 VAC or 160~300 VAC @ 100% load		
Frequency range		45~55 Hz / 55~65 Hz (auto-detect)		
Power factor		≥0.99 @ nominal voltage (100% load)		
OUTPUT				
Output voltage		200/208/220/230/240 VAC or 100/110/115/120/127 VAC		
Power factor		0.9 pF		
Harmonic distortion		≤3% THD (linear load) ≤6% THD (non-linear load)		
Transfer time	AC to DC	zero		
EFFICIENCY				
AC mode		90%	91%	91%
Battery mode		85%	88%	86%
PHYSICAL				
Standard model	Dimensions (D x W x H)	430 x 440 x 86.5 mm	552 x 440 x 86.5 mm	710 x 440 x 86.5 mm
	Net weight	8.9 kg	10.1 kg	12 kg
ENVIRONMENT				
Humidity		20-90% RH @ 0-40 °C (non-condensing)		
Noise level		<50dB @ 1 m		
MANAGEMENT				
LCD		Load level, battery level, AC mode, battery mode, bypass mode, fault indicators		
Smart RS-232 / USB (preferential)		External Modbus card supported by RS232, software supports Windows family, Linux , FreeBSD		
Optional SNMP		Power management from SNMP manager and web browser		



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