

MASTERYS BC & DELPHYS BC

Reliable, simple and ready-to-use power protection
UPS from 15 to 300 kVA

EDITION
2017



your energy
our expertise





MASTERYS BC

Reliable, simple and ready-to-use power protection
from 15 to 80 kVA

Single-phase and
three-phase UPS



The solution for

- > Server rooms
- > Service sector
- > Infrastructure
- > Healthcare sector
- > Light industrial applications

Technology

- > VFI “online double conversion”

Certifications



The MASTERYS BC series is certified by TÜV SÜD with regard to product safety (EN 62040-1).

A complete, cost-effective solution

- Online double conversion mode with an output power factor of 0.9 providing 12% more active power compare to UPS with a power factor of 0.8.
- Dual input mains allows you to manage independent power sources.
- Increased system availability placing two UPS in parallel for 1+1 redundancy.
- Internal manual bypass for easy maintenance without power interruption.
- Internal batteries providing more than 1 hour runtime.
- Multilanguage display.

Tailored to your environment

- Saves space with a reduced footprint and optimized cabinet size.
- Low noise level.
- Flexible battery solutions
- Compact, lightweight and easy to install.
- Extended battery life and performance with exclusive EBS battery charging management for increased battery life.

Standard electrical features

- Dual input mains (15-40 kVA).
- Internal manual bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.

Electrical options

- Dual input mains (60-80 kVA).
- External battery cabinet.
- External temperature sensor.
- Additional battery chargers.
- Galvanic isolation transformer.
- Parallel kit.
- ACS synchronization system.

Standard communication features

- MODBUS RTU.
- 2 slots for communication options.

Communication options

- Dry-contact interface.
- PROFIBUS.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

Remote monitoring service

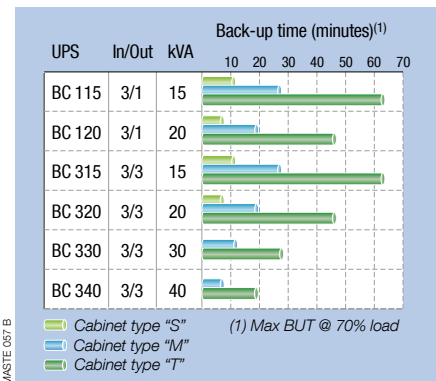
- LINK-UPS, remote monitoring service that connects your UPS to your Critical Power specialist 24/7.

Technical data

MASTERYS BC						
Sn [kVA]	15	20	30	40	60	80
Pn [kW]	13.5	18	27	36	54	72
Input/output 3/1	•	•	-	-	-	-
Input/output 3/3	•	•	•	•	•	•
Parallel configuration	1+1 ⁽¹⁾					
INPUT						
Rated voltage	400 V 3ph + N					
Voltage tolerance	240 V to 480 V ⁽²⁾					
Rated frequency	50/60 Hz ± 10%					
Power factor / THDI	0.99 / < 3%					
OUTPUT						
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) 3ph + N: 400 V (can be configured 380/415 V)					
Voltage tolerance	static load ±1% dynamic load in accordance with VFI-SS-111					
Rated frequency	50/60 Hz					
Frequency tolerance	± 2% (configurable from 1% to 8%)					
Overload	125% for 10 minutes, 150% for 1 minute					
Crest factor	3:1					
BYPASS						
Rated voltage	rated output voltage					
Voltage tolerance	± 15% (configurable from 10% to 20%)					
Rated frequency	50/60 Hz					
Frequency tolerance	± 2% (configurable for Genset compatibility)					
EFFICIENCY						
Online mode @ 100% of load	up to 94,5%					
ENVIRONMENT						
Operating ambient temperature	from 0 °C up to +40 ⁽²⁾ °C (from 15 °C to 25 °C for maximum battery life)					
Relative humidity	0% - 95% without condensation					
Maximum altitude	1000 m without derating (max. 3000 m)					
Acoustic level at 1 m (ISO 3746)	< 52 dBA	< 55 dBA	< 55 dBA	< 55 dBA	< 62 dBA	< 62 dBA
UPS CABINET						
Dimensions W x D x H	444 x 795 x 800/1000/1400 mm			444 x 795 x 1400 mm		
Weight ⁽³⁾	105 kg	110 kg	135 kg	152 kg	180 kg	200 kg
Degree of protection	IP20					
Colours	RAL 7012					
STANDARDS						
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2					
EMC	IEC/EN 62040-2, AS 62040.2					
Performance	IEC/EN 62040-3, AS 62040.3					
Product declaration	CE, RCM (E2376)					

(1) The standard model is prepared for a 1+1 redundant system. Upon request, it is possible to have connected up to 6 modules in a parallel system. (2) Conditions apply. (3) Without batteries.

UPS and internal batteries





MASTERYS BC

Reliable, simple and ready-to-use power protection
from 100 to 120 kVA

Three-phase UPS



The solution for

- > Server rooms
- > Service sector
- > Infrastructure
- > Healthcare sector
- > Light industrial applications

Certifications



The MASTERYS BC series is certified by TÜV SÜD with regard to product safety (EN 62040-1).

A complete, cost-effective solution

- Online double conversion mode with an output power factor of 0.9 providing 12% more active power compare to UPS with a power factor of 0.8.
- Dual input mains allows you to manage independent power sources.
- Increased system availability placing two UPS in parallel for 1+1 redundancy.
- Internal manual bypass for easy maintenance without power interruption.
- Multilanguage display.

Tailored to your environment

- Saves space with a reduced footprint and optimized cabinet size.
- Low noise level.
- Flexible battery solutions.
- Compact, lightweight and easy to install.
- Extended battery life and performance with exclusive EBS battery charging management for increased battery life.

Standard electrical features

- Dual input mains.
- Internal manual bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.

Electrical options

- External battery cabinet.
- External temperature sensor.
- Additional battery chargers.
- Galvanic isolation transformer.
- Parallel kit.
- ACS synchronization system.

Standard communication features

- Dry-contact interface.
- MODBUS RTU.
- 2 slots for communication options.

Communication options

- MODBUS TCP.
- PROFIBUS.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

Remote monitoring service

- LINK-UPS, remote monitoring service that connects your UPS to your Critical Power specialist 24/7.

Technical data

MASTERYS BC	
Sn [kVA]	100 120
Pn [kW]	90 108
Parallel configuration	1+1 ⁽¹⁾
INPUT	
Rated voltage	400 V 3ph + N
Voltage tolerance	240 V to 480 V ⁽²⁾
Rated frequency	50/60 Hz ± 10%
Power factor / THDI	0.99 / < 3%
OUTPUT	
Rated voltage	400 V (can be configured 380/415 V)
Voltage tolerance	static load ± 1 % dynamic load in accordance with VFI-SS-111
Rated frequency	50/60 Hz
Frequency tolerance	± 2% (configurable from 1% to 8%)
Overload	125% for 10 minutes, 150% for 1 minute
Crest factor	3:1
BYPASS	
Rated voltage	rated output voltage
Voltage tolerance	± 15% (configurable with from 10% to 20%)
Rated frequency	50/60 Hz
Frequency tolerance	± 2% (configurable for Genset compatibility)
EFFICIENCY	
Online mode @ 100% of load	up to 94,5%
ENVIRONMENT	
Operating ambient temperature	from 0 °C up to +40 ⁽²⁾ °C (from 15 °C to 25 °C for maximum battery life)
Relative humidity	0% - 95% without condensation
Maximum altitude	1000 m without derating (max. 3000 m)
Acoustic level at 1 m (ISO 3746)	< 65 dBA
UPS CABINET	
Dimensions W x D x H	700 x 800 x 1930 mm
Weight	410 kg 430 kg
Degree of protection	IP20
Colours	RAL 7012, silver grey frontal door
STANDARDS	
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2
EMC	IEC/EN 62040-2, AS 62040.2
Performance	IEC/EN 62040-3, AS 62040.3
Product declaration	CE, RCM (E2376)

(1) The standard model is prepared for a 1+1 redundant system. Upon request, it is possible to have connected up to 6 modules in a parallel system.

(2) Conditions apply.



DELPHYS BC

Reliable, simple and ready-to-use power protection
from 160 to 300 kVA

Three-phase UPS



The solution for

- > Server rooms
- > Service sector
- > Infrastructure
- > Healthcare sector
- > Light industrial applications

A complete, cost-effective solution

- Online double conversion mode with an output power factor of 0.9 providing 12% more active power compare to UPS with a power factor of 0.8.
- Dual input mains allows you to manage independent power sources.
- Increased system availability placing two UPS in parallel for 1+1 redundancy.
- Internal manual bypass for easy maintenance without power interruption (1+1 configuration).
- Multilanguage display.

Tailored to your environment

- Saves space with a reduced footprint and optimized cabinet size.
- Low noise level.
- Compact, lightweight and easy to install.
- No neutral required on rectifier input.
- Two-wire battery connection (only +/-).
- Extended battery life and performance with exclusive EBS battery charging management for increased battery life.

Standard electrical features

- Dual input mains.
- Integrated maintenance bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.

Electrical options

- External battery cabinet.
- External temperature sensor.
- Additional battery chargers.
- Shared battery.
- Galvanic isolation transformer.
- Parallel kit.
- ACS synchronization system.

Standard communication features

- 2 slots for communication options.

Communication options

- ADC interface (configurable voltage-free contacts).
- MODBUS TCP.
- MODBUS RTU.
- PROFIBUS.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

Remote monitoring service

- LINK-UPS, remote monitoring service that connects your UPS to your Critical Power specialist 24/7.

Technical data

		DELPHYS BC	
Sn [kVA]	160	200	300
Pn [kW]	144	180	270
Parallel configuration	up to 6 units		
INPUT			
Rated voltage	400 V 3ph		
Voltage tolerance	240 V to 480 V ⁽¹⁾		
Rated frequency	50/60 Hz ± 10 %		
Power factor/THDI	0.99/< 3 %		
OUTPUT			
Rated voltage	400 V		
Voltage tolerance	static load ± 1 % dynamic load in accordance with VFI-SS-111		
Rated frequency	50/60 Hz		
Frequency tolerance	± 2 % (configurable from 1 % to 8 %)		
Crest factor	3:1		
BYPASS			
Rated voltage	rated output voltage		
Voltage tolerance	± 15 % (configurable with from 10 % to 20 %)		
Rated frequency	50/60 Hz		
Frequency tolerance	± 2 % (configurable for Genset compatibility)		
EFFICIENCY			
Online mode @ 100 % of load	up to 94 %		
ENVIRONMENT			
Operating ambient temperature	from 0 °C up to +40 ²⁾ °C (from 15 °C to 25 °C for maximum battery life)		
Relative humidity	0 % - 95 % without condensation		
Maximum altitude	1000 m without derating (max. 3000 m)		
Acoustic level at 1 m (ISO 3746)	< 68 dBA		< 71 dBA
UPS CABINET			
Dimensions W x D x H	700 x 800 x 1930 mm		1000 x 950 x 1930 mm
Weight	480 kg	500 kg	830 kg
Degree of protection	IP20		
Colours	RAL 7012, silver grey frontal door		
STANDARDS			
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2		
EMC	IEC/EN 62040-2, AS 62040.2		
Performance	IEC/EN 62040-3, AS 62040.3		
Product declaration	CE, RCM (E2376)		

(1) Conditions apply.

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