# PROTECT D SINGLE PHASE IN / OUT UPS SYSTEM

Uninterruptible Power Supply

1-Phase Input; 1-Phase Output

1000–10000 VA power supply with integrated batteries





### Efficient high-performance UPS for rack use

With a high power factor of 0.9lag the Protect D series exceeds the power of conventional UPS systems by 20 %. Efficiency is significantly increased during normal operation as well as in the energy-efficient ECO and ECO+ operating modes.

### Compact and flexible

The height of the UPS electronics and battery together is only 2 U. With the flap front cover, battery replacement is very easy.

The autonomy times can be increased with additional battery packs; connected battery packs are automatically detected.

All batteries can be replaced during operation (hot-swappable). Our advanced battery charging technology allows for short charging times and battery-preserving charging characteristics at the same time.

Many interfaces (RS232/USB/Slot/EPO) as well as a potential-free contact within the series ensure an outstanding communication capacity.

### Secure and easy to use

An innovative locking mechanism at the UPS outputs prevents accidental separation of the loads.

The multilingual graphic screen is very easy to read, even from a longer distance, thanks to its large format. Together with three LEDs at the top, it displays the essential operating conditions. The UPS can be directly administered with the control panel. A real-time event logger ensures careful observation and analysis of events as they occur. In addition, a regular automated battery test can be planned.

### Main characteristics

- »VFI topology (online/double conversion) protects against all network problems
- »An increase of the available performance by approx. 20 % through a 0.9lag power factor
- »Increased efficiency through the ECO and ECO+ mode
- »Advanced battery charging technology for maximum durability of the battery
- »Hot-swappable batteries, easy replacement through hinged front
- »Additional battery packs for easy scaling of the autonomy times
- » Extension slot for communication cards, communication in parallel is possible through the RS232/USB interface and SNMP
- » Low height (2 U) including integrated batteries
- » Switchable UPS outputs with innovative locking mechanism
- »Display of the UPS parameters on a graphic LCD, direct configuration is possible with the control panel
- » Freely programmable potential-free contact plus emergency shutdown contact
- »May also be used as a frequency converter



Classification VFI SS 211 acc. to IEC 62040-3	D. 1000	D. 1500	D. 2000	D. 3000
Power type rating	1000 VA	1500 VA	2000 VA	3000 VA
	900 W	1350 W	1800 W	2700 W
Part number UPS including integrated battery system)	600 000 8434	600 000 8436	600 000 8437	600 000 8438
Part number (additional battery pack)	600 000 8441	600 000 8442	600 00	0 8443
JPS INPUT				
nput voltage		220 V AC / 230	V AC / 240 V AC	
/oltage range without battery mode load dependent)	120 – 276 V AC 140 – 276 V AC		76 V AC	
requency (auto selection)		50 Hz / 60	) Hz ± 5 Hz	
Mains current (system reaction)		λ ≥0.99 (1	「HDi ≤8 %)	
Current consumption at nominal load (max.)	4.8 A	7.2 A	9.6 A	13.7 A
JPS OUTPUT				
Rated output voltage (adjustable)	200	V AC / 208 V AC / 220 V AC /	230 V AC (default) / 240 V AC	±2%
requency in battery-/ requency converter mode		50 Hz / 60	Hz ±0.25 Hz	
Dutput current (at 230 V AC)	4.3 A	6.5 A	8.7 A	13 A
ransfer time at mains outage		0 ms (withou	t interruption)	
/oltage waveform	Sinusoidal, distortion THD <3 %			
Overload response (double conversion mode)	<130 % for 5 min. / 130 % – 150 % for 15 s			
Overload response (battery mode)	<130 % for 12 s / 130 % – 150 % for 2 s			
Crest factor	3:1			
Short circuit response		Short circuit proc	of (4 x I <sub>N</sub> for 100 ms)	
BATTERY		T.		
ӯре	Sealed,	maintenance free (proprieta	ry brand), integrated, hot swa	appable
Rated voltage (linked)	36 V DC	48 V DC	72 V	DC
Battery management	auto	Temperature compensate	d with discharge protection, nable) and battery pack deter	ation
Charging time (to 90 % rated capacity)			h	ction
				cuon
COMMUNICATION	RS232,	3 USB, communication slot (ca		? / USB),
COMMUNICATION nterfaces (dual monitoring)	RS232, input con	3 USB, communication slot (ca tact for emergency shutdow	h n be used parallel with RS232	/ USB), se contact
COMMUNICATION Interfaces (dual monitoring) Shutdown software (on CD)	RS232, input con 5 network 3 LE (alarms: at m	USB, communication slot (ca tact for emergency shutdown licenses for all common OS (e D's with traffic light display, c ains failure, overload, batter	h n be used parallel with RS232 n, programmable potential fre	: / USB), ee contact ix, Sun etc.) splay ent, fan fault,
COMMUNICATION nterfaces (dual monitoring) Shutdown software (on CD) Failure indicators (acoustic/visual)	RS232, input con 5 network 3 LE (alarms: at m	USB, communication slot (ca tact for emergency shutdown licenses for all common OS (e D's with traffic light display, c ains failure, overload, batter	h n be used parallel with RS232 n, programmable potential fre e.g. Windows, Linux, Mac, Uni detailed indication via LCD dis y charging, battery replaceme	: / USB), ee contact ix, Sun etc.) splay ent, fan fault,
COMMUNICATION nterfaces (dual monitoring) Shutdown software (on CD) Failure indicators (acoustic/visual) GENERAL DATA	RS232, input con 5 network 3 LE (alarms: at m da	USB, communication slot (ca tact for emergency shutdown licenses for all common OS (e D's with traffic light display, c ains failure, overload, batter	h n be used parallel with RS232 n, programmable potential fre e.g. Windows, Linux, Mac, Uni detailed indication via LCD dis y charging, battery replaceme	: / USB), ee contact ix, Sun etc.) splay ent, fan fault, ry)
COMMUNICATION nterfaces (dual monitoring) Shutdown software (on CD) Failure indicators (acoustic/visual) GENERAL DATA Efficiency (ECO+ mode) Efficiency at nominal load	RS232, input con 5 network 3 LE (alarms: at m da	USB, communication slot (ca tact for emergency shutdow licenses for all common OS (e D's with traffic light display, c ains failure, overload, batter ita logger – with clear text di	h n be used parallel with RS232 n, programmable potential fre e.g. Windows, Linux, Mac, Uni detailed indication via LCD dis y charging, battery replaceme splay incl. date and time histo	/ USB), ee contact ix, Sun etc.) splay ent, fan fault, ry)
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COMMUNICATION Interfaces (dual monitoring) Shutdown software (on CD) Failure indicators (acoustic/visual) GENERAL DATA Efficiency (ECO+ mode) Efficiency at nominal load double conversion mode) Audible noise (1 m distance) Diperating temperature range Humidity Diperation altitude EMC conformity Product safety Number of outputs (switchable) automatically locked Housing Dimensions approx. W x H x D (mm) UPS Dimensions approx. W x H x D (mm) battery	RS232, input con 5 network 3 LE (alarms: at m da >9 ≥88 % <44 dB(A) 6 × IEC 32 6 × IEC 32	USB, communication slot (ca tact for emergency shutdown licenses for all common OS ( D's with traffic light display, o nains failure, overload, batter ta logger – with clear text di 5 % >88 % < 45 dB(A) 0°– 0 – 95 % (withou Up to 3000 m EN 62040-2 Class C1, EN EN 62 0 C13 (2+2) Blackline metal case 88 (2 U) x 430	A h an be used parallel with RS232 n, programmable potential fre e.g. Windows, Linux, Mac, Unid detailed indication via LCD dis y charging, battery replacements splay incl. date and time histor >98 >89 % <52 c 40°C ut condensation) at nominal load 161000-3-2, EN 61000-3-3 2040-1 8 × IEC 320 C13 (2+2) e with aluminum front 482.6 (19") × 8	2 / USB), 2e contact ix, Sun etc.) splay ent, fan fault, ry) 3 % ≥90 % dB(A) 6 × IEC 320 C13 (3+: + 1 × IEC 320 C19 38 (2 U) × 600
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Charging time (to 90 % rated capacity)         COMMUNICATION         Interfaces (dual monitoring)         Shutdown software (on CD)         Failure indicators (acoustic/visual)         GENERAL DATA         Efficiency (ECO+ mode)         Efficiency at nominal load (double conversion mode)         Audible noise (1 m distance)         Operating temperature range         Humidity         Operation altitude         EMC conformity         Product safety         Number of outputs (switchable) automatically locked         Housing         Dimensions approx. W x H x D (mm) UPS         Dimensions approx. W x H x D (mm) battery         Weight approx. UPS incl. integrated battery         Weight approx. battery extension unit         Shipment	RS232, input con 5 network 3 LE (alarms: at m da >9 ≥88 % <44 dB(A) 6 × IEC 32 6 × IEC 32 482.6 (19") × 482.6 (19") × 16 kg 23 kg Mains input comm	USB, communication slot (ca tact for emergency shutdown licenses for all common OS (c D's with traffic light display, o nains failure, overload, batter ta logger – with clear text di 5 % >88 % < 45 dB(A) 0°– 0 – 95 % (withou Up to 3000 m EN 62040-2 Class C1, EN EN 62 0 C13 (2+2) Blackline metal case 88 (2 U) × 430 88 (2 U) × 430 88 (2 U) × 430 19.5 kg 28 kg cord (1 × EU, 1 × UK), UPS ma unications cables (RS232 & U	A h an be used parallel with RS232 n, programmable potential fre e.g. Windows, Linux, Mac, Uni detailed indication via LCD dis y charging, battery replaceme splay incl. date and time histo >98 >89 % <pre>&gt;89 % <pre></pre> <pre>&gt;89 % <pre></pre> <pre>&gt;89 % <pre></pre> <pre></pre> <p< td=""><td>2/ USB), 2e contact ix, Sun etc.) splay ent, fan fault, ry) 3 % ≥90 % dB(A) 6 × IEC 320 C13 (3+ + 1 × IEC 320 C13 (3+ + 1 × IEC 320 C13 38 (2 U) × 600 38 (2 U) × 600 38 (2 U) × 430 29.5 kg 41 kg Watch" (CD), ck rails,</td></p<></pre></pre></pre>	2/ USB), 2e contact ix, Sun etc.) splay ent, fan fault, ry) 3 % ≥90 % dB(A) 6 × IEC 320 C13 (3+ + 1 × IEC 320 C13 (3+ + 1 × IEC 320 C13 38 (2 U) × 600 38 (2 U) × 600 38 (2 U) × 430 29.5 kg 41 kg Watch" (CD), ck rails,

# PROTECT D. 6000/10000





# Top performance in rack format

Protect D. 6000 and D. 10000 compliment the range of the successful Protect D series. With Protect D. 10000, a power level of 10 kVA in rack design is available for the first time.

Protect D. 6000 and Protect D. 10000 have the same advantages and characteristics as the smaller models, including the high power factor of 0.9lag.

#### Compact housing dimensions

Thanks to their compact design, the devices can also be used in IT cabinets with a depth of only 800 mm.

Protect D. 6000 including battery, connection unit and manual bypass unit fits within 3 standard height units. The 10 kVA version, with a complete battery system, connection unit and integrated manual maintenance bypass fits within 5 standard height units. The sophisticated design with removable connection unit and battery systems with plug-in technology make the assembly in the rack and the electrical installation as easy as possible. The weight is unimportant as the batteries can be mounted at the end of the installation.

### Flexible and maintenance friendly

The equipment offers separate feed for the rectifiers and bypass, Protect D. 6000 and 10000 can also be operated with only one feed. Both options are provided to deliver highest flexibility and security.

To increase power or to be able to serve the demand for active redundancy, Protect D. 6000 and Protect D. 10000 are prepared for parallel operation.

In order to ease maintenance work, a manual bypass is already integrated into the removable connection unit.

### **Special characteristics**

- » Suitable for IT cabinets with a depth of 800 mm
- » High power density in a compact housing
- » Very easy assembly through removable connection unit and batteries with plug-in technology
- »Dual or single input
- » Prepared for parallel operation
- Integrated manual maintenance bypass (foolproof operation)

D. 6000	D. 10000		
	10000 VA		
	9000 W		
600 000 8439	600 000 8440		
600 001 1042	600 001 1044		
220 V AC / 230 V	AC / 240 V AC		
176 V AC (120 V AC to 50 S	% utilization) – 276 V AC		
50 Hz / 60 Hz ±10 %			
λ ≥0.99 (THDi <5 %)			
29 A	47 A		
200 V AC / 208 V AC / 220 V AC / 2	30 V AC (default) / 240 V AC ±1%		
50 Hz / 60 Hz ±0.5 %			
26 A	43.4 A		
Sinusoidal, distortion THD <2 %			
<130 % for 2 min. / 130 – 150 % for 30 s, then automatically switches over to electronic bypass: 0 ms			
< 130 % for 2 min. / 130 – 130 % for 30 s, then automatically switches over to electronic bypass: 0 ms			
Short circuit proof	(3 x L, for 100 ms)		
Sealed maintenance free (proprietary	(brand) integrated hot swappable		
	240 V DC		
	·		
RS232, USB, communication slot (can			
input contact for emergency shutdown,	programmable potential free contact		
input contact for emergency shutdown, 5 network licenses for all common OS (e.	programmable potential free contact g. Windows, Linux, Mac, Unix, Sun etc.)		
input contact for emergency shutdown,	programmable potential free contact g. Windows, Linux, Mac, Unix, Sun etc.) display (alarms: at mains failure, overload, battery chargir		
input contact for emergency shutdown, 5 network licenses for all common OS (e. 3 LED's with traffic light display, detailed indication via LCD c	programmable potential free contact g. Windows, Linux, Mac, Unix, Sun etc.) display (alarms: at mains failure, overload, battery chargir		
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input contact for emergency shutdown, 5 network licenses for all common OS (e. 3 LED's with traffic light display, detailed indication via LCD of battery replacement, fan fault, data logger – wit >96 % >92 % <55 d 0° – 4	programmable potential free contact g. Windows, Linux, Mac, Unix, Sun etc.) display (alarms: at mains failure, overload, battery chargin th clear text display incl. date and time history) >97 % >93 % B(A) 0°C condensation)		
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input contact for emergency shutdown, 5 network licenses for all common OS (e. 3 LED's with traffic light display, detailed indication via LCD of battery replacement, fan fault, data logger – wit >96 % >92 % <55 d 0° – 4 0 – 95 % (without Up to 1000 m at EN 62010-2	programmable potential free contact g. Windows, Linux, Mac, Unix, Sun etc.) display (alarms: at mains failure, overload, battery chargin th clear text display incl. date and time history) >97 % >93 % B(A) 0°C condensation) condensation) condensation) class C2 40-1 from rectifier and bypass connector unit with removable		
input contact for emergency shutdown, 5 network licenses for all common OS (e. 3 LED's with traffic light display, detailed indication via LCD of battery replacement, fan fault, data logger – with >96 % >92 % <55 d 0° – 4 0 – 95 % (without Up to 1000 m at EN 62010-2 EN 620 Permanent connection via terminals, separate power option	programmable potential free contact g. Windows, Linux, Mac, Unix, Sun etc.) display (alarms: at mains failure, overload, battery chargin th clear text display incl. date and time history) >97 % >93 % B(A) 0°C condensation) condensation) condensation) class C2 40-1 from rectifier and bypass connector unit with removable		
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input contact for emergency shutdown, 5 network licenses for all common OS (e: 3 LED's with traffic light display, detailed indication via LCD o battery replacement, fan fault, data logger – wit >96 % >92 % <55 d 0° – 4 0 – 95 % (without Up to 1000 m at EN 62010-2 EN 62010-2 EN 620 Permanent connection via terminals, separate power optior integrated manual bypass (for installation or subsequent mai 1 × fixed connection on terminal block plus 2 × IEC 320 C13, 1 × IEC 320 C19	programmable potential free contact g. Windows, Linux, Mac, Unix, Sun etc.) display (alarms: at mains failure, overload, battery chargin h clear text display incl. date and time history) >97 % >93 % B(A) 0°C condensation) condensation) condensation) cleas C2 W40-1 n from rectifier and bypass connector unit with removable ntenance of UPS) with optional cable entry from top or rear 1 x fixed connection on terminal block plus 4 x IEC 320 C19		
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input contact for emergency shutdown, 5 network licenses for all common OS (e. 3 LED's with traffic light display, detailed indication via LCD of battery replacement, fan fault, data logger – with >96 % >92 % <55 d 0° – 4 0 – 95 % (without Up to 1000 m at EN 62010-2 EN 62010-2 EN 620 Permanent connection via terminals, separate power option integrated manual bypass (for installation or subsequent mai 1 × fixed connection on terminal block plus 2 × IEC 320 C13, 1 × IEC 320 C19 Metal casing, blackline with 48.6 (19") × 132 (3 U) × 715 depth with front panel plus 35 mm 482.6 (19") × 132	programmable potential free contact g. Windows, Linux, Mac, Unix, Sun etc.) display (alarms: at mains failure, overload, battery chargin h clear text display incl. date and time history) >97 % >93 % B(A) 0°C condensation) enominal load P. Class C2 M40-1 n from rectifier and bypass connector unit with removable ntenance of UPS) with optional cable entry from top or rear 1 x fixed connection on terminal block plus 4 x IEC 320 C19 n aluminum cabinet front 48.6 (19") x 220 (5 U) x 715 depth with front panel plus 35 mm		
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input contact for emergency shutdown, 5 network licenses for all common OS (e. 3 LED's with traffic light display, detailed indication via LCD of battery replacement, fan fault, data logger – with >96 % >92 % <55 d 0° – 4 0 – 95 % (without Up to 1000 m at EN 62010-2 EN 62010-2 EN 62010-2 EN 6202 Permanent connection via terminals, separate power option integrated manual bypass (for installation or subsequent mai 1 × fixed connection on terminal block plus 2 × IEC 320 C13, 1 × IEC 320 C19 Metal casing, blackline with 48.6 (19") × 132 (3 U) × 715 depth with front panel plus 35 mm 482.6 (19") × 132	programmable potential free contact g. Windows, Linux, Mac, Unix, Sun etc.) display (alarms: at mains failure, overload, battery charging th clear text display incl. date and time history) >97 % >93 % B(A) 0°C condensation) enominal load Class C2 W40-1 n from rectifier and bypass connector unit with removable ntenance of UPS) with optional cable entry from top or rear 1 x fixed connection on terminal block plus 4 x IEC 320 C19 n aluminum cabinet front 48.6 (19") x 220 (5 U) x 715 depth with front panel plus 35 mm 32 (3 U) x 595 32.5 kg 63 kg anagement software "CompuWatch" (CD)		
	6000 VA 5400 W 600 000 8439 600 001 1042 220 V AC / 230 V 176 V AC (120 V AC to 50 % 184 – 26 50 Hz / 60 H 29 A 200 V AC / 208 V AC / 220 V AC / 2 50 Hz / 60 H 26 A 0 ms (without Sinusoidal, distor <130 % for 2 min. / 130 – 150 % for 30 s, then auton		



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