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
- 36-month warranty with replacement service in advance (free registration required)



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	600 000 8434	600 000 8436	600 000 8437	600 000 8438
(UPS including integrated battery system)				
Part number (additional battery pack)	600 000 8441	600 000 8442	600 000	J 8443
JPS INPUT		220.1/ A.C. / 220	V AC /240 V AC	
nput voltage		220 V AC / 230	V AC / 240 V AC	
/oltage range without battery mode load dependent)	120 – 2	276 V AC	140 – 27	6 V AC
requency (auto selection)		50 Hz / 60) Hz ± 5 Hz	
Mains current (system reaction)		λ≥0.99 (7	THDi ≤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	
Output 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 / 1	30 % – 150 % for 2 s	
Crest factor	3:1			
Short circuit response		Short circuit proc	of (4 x I _N for 100 ms)	
BATTERY			IV	
Гуре	Sealed	, maintenance free (proprieta	ary brand), integrated, hot swa	ppable
Rated voltage (linked)	36 V DC	48 V DC	72 V	DC
Battery management	auto	Temperature compensated	d with discharge protection, nable) and battery pack detec	rtion
Charging time (to 90 % rated capacity)		, , ,	3 h	
COMMUNICATION				
nterfaces (dual monitoring)			n be used parallel with RS232 n, programmable potential fre	
Shutdown software (on CD)	· · · · · · · · · · · · · · · · · · ·		e.g. Windows, Linux, Mac, Uni	
Failure indicators (acoustic/visual)			detailed indication via LCD dis	
and e maleutors (acoustic, visual)	(alarms: at m	nains failure, overload, batter	y charging, battery replacements of the state of the stat	nt, fan fault,
GENERAL DATA				
Efficiency (ECO+ mode)	>9	95 %	>98	1%
Efficiency at nominal load double conversion mode)	≥88 %	>88 %	>89 %	≥90 %
Audible noise (1 m distance)	<44 dB(A)	< 45 dB(A)	<52 c	IB(A)
Operating temperature range		0°-	40°C	
Humidity		0 – 95 % (withou	ut condensation)	
Operation altitude			at nominal load	
EMC conformity		EN 62040-2 Class C1, EN	I 61000-3-2, EN 61000-3-3	
Product safety		EN 6	2040-1	
Number of outputs (switchable)	6 x IEC 32	20 C13 (2+2)	8 x IEC 320 C13 (2+2)	6 x IEC 320 C13 (3+3 + 1 x IEC 320 C19
Housing		Blackline metal case	e with aluminum front	
Dimensions approx. W x H x D (mm) UPS	482.6 (19") x	. 88 (2 U) × 430	482.6 (19") × 8	38 (2 U) × 600
Dimensions approx. W x H x D (mm) battery		. 88 (2 U) × 430	482.6 (19") x 8	
Weight approx. UPS incl. integrated battery	16 kg	19.5 kg	19 kg	29.5 kg
Weight approx. battery extension unit	23 kg	28 kg	41 kg	41 kg
Shipment	Mains input commi	cord (1 x EU, 1 x UK), UPS ma unications cables (RS232 & U	nagement software "Compu\ SB), operating instructions, ra	Watch" (CD), ck rails,
			000), 3 x IEC 320 C13 +1 x IEC 3	
Conformity		· · · · · · · · · · · · · · · · · · ·	DE	•
Conformity		(CE	

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)
- 36-month warranty with replacement service in advance (free registration required)

Classification VFI SS 111 acc. to IEC 62040-3	D. 6000	D. 10000		
Power type rating (Ready for redundant or	6000 VA	10000 VA		
increased performance parallel operation)	5400 W 9000 W			
Part number (UPS incl. internal battery system)	600 000 8439	600 000 8440		
Part number (additional battery pack)	600 000 3437	600 001 1044		
JPS INPUT	000 001 1042	000 001 1044		
nput voltage	220 V AC / 230 V	/ AC / 240 V AC		
oltage range without battery mode	176 V AC (120 V AC to 50			
Oltage range bypass input	178 V AC (120 V AC to 30			
requency (auto selection)	50 Hz / 60			
Mains current (system reaction)	λ ≥0.99 (THDi <5 %)			
Current consumption at nominal load (max.)	29 A 47 A			
JPS OUTPUT	ZIA	7/ /\		
Rated output voltage (adjustable)	200 \/ \C / 208 \/ \C / 220 \/ \C /	230 V AC (dofault) / 240 V AC +1%		
requency in battery / frequency converter mode	200 V AC / 208 V AC / 220 V AC / 230 V AC (default) / 240 V AC ±1% 50 Hz / 60 Hz ±0.5 %			
Output current (at 230 V AC)	26 A 43.4 A			
ransfer time at mains outage	The state of the s	The state of the s		
oltage waveform	0 ms (without interruption) Sinusoidal, distortion THD <2 %			
Overload response (double conversion mode)	Sinusoidal, distortion THD < 2 % <130 % for 2 min. / 130 – 150 % for 30 s, then automatically switches over to electronic bypass: 0 ms			
Crest factor	3:1			
hort circuit response	Short circuit proof (3 x I_N for 100 ms)			
ATTERY	Short circuit proof	(3 X I _N TOT TOO HIS)		
	Sealed, maintenance free (proprieta	ry brand) integrated het gwappable		
ype ated voltage (linked)	180 V DC	y brand), integrated, not swappable		
	Temperature compensated with discharge protection, autom			
sattery management	remperature compensated with discharge protection, autom	, , , , , , , , , , , , , , , , , , , ,		
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COMMUNICATION				
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AEG Power Solutions

Approach your local AEG Power Solutions representative for further support. Contact details can be found on:

