

Power supply systems



High performance UPS-system for IT and electronic data processing in medium-sized companies.

Due to true online / double-conversion technology PROTECT C. is well suited for mission-critical applications such as sensitive networks, small computer centers, Intranet and Internet servers, telecom applications as well as for industrial applications.

The PROTECT C. employs VFI topology to protect loads basically against all public grid disturbances. On the input side sine wave shape current consumption is achieved for all load conditions. High integrated circuits reduce the number of electric connections and components as well as a robust IGBT module. Result: less and more robust components increase reliability. An automatic bypass provides security during overload.

Maximum control: Bar graph displays UPS load and battery capacity and the clearly organized pictogram also informs about the most important aspects of the operating status.

Important UPS data can be transmitted via RS232 interface. Web browser remote monitoring and multi-server shutdown is possible with an optional



SNMP adapter. "CompuWatch" shutdown and reboot software is included for implementing these features. Available as Tower or for 19" rack mounting.

Intelligent functions, high level protection:

- VFI-topology (double-conversion): Protects against all mains power disturbances
- Microprocessor control / DSP guarantees highest availability
- Sine wave shaped current consumption (High frequency PWM with IGBTs)
- Automatic bypass, additional integrated service bypass at 6 and 10 kVA (tower)
- Redundancy due to n+x configuration at 6 and 10 kVA; increase in power output / safety and availability
- Expansion slot for extension cards SNMP / potential free contacts

Parallel operations:

PROTECT C. 6000 and C. 10000 are also able to be switched parallel. Demand for greater availability by providing an active redundancy as well as a need for increased output power is met here. The combined power increase in connection with active redundancy can be achieved by the parallel switch ability of a maximum of 3 devices.

The main factors are meeting the highest requirements in respect of safety and availability as well as cost efficient implementation.

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>> PROTECT C.

Classification VFI SS 211 acc. to IEC 62040-3 Type power		C. 1000 1000 VA 700 W	C. 2000 2000 VA 1400 W	C. 3000 3000 VA 2100 W	C. 6000 6000 VA 4200 W Parallel opera	C. 10000 10000 VA 7000 W tions (n+x)
UPS-input						
Input voltage range without battery mode		160 – 300 Vac 172-0 Vac 176 – 276 Vac				
Frequency			5	0 Hz / 60 Hz ± 4 F	lz	
Current consumption (max.)		7 A	λ ≥ 0.96 10 A	16 A	λ≥0. 31 A	98 50 A
UPS-output						
Rated output voltage		220 Vac	220 Vac / 230 Vac / 240 Vac ± 2 % ± 1 %			%
Frequency in battery mode		420	50 Hz / 60 Hz ± 0.	1 12 4	± 0.05	Hz
Transfer time at mains outage		4.3 A	8.7 A 0	ns (zero transfe	20 A	43.4 A
Voltage waveform		Sinusoidal, THD < 4%				
Overload response (online mode)		140 % 30 s / 150 % 300 ms 125 % 10 min / 130 % 1 s				
Croct factor			subsequ	ent, transfer to b	ypass mode	
Short-circuit response			S	Short-circuit-proo	f	
Battery						
Туре	Sealed, maintenance free, A-Brand					
Rated voltage		36 Vdc 96 Vdc			240 Vdc 8 min / 25 min 5 min / 15 min	
		Rur	ntime extension	with scalable ex	ternal battery pac	ks
Overload / deep discharge protection		yes	yes	yes	yes	yes
Recharge time (to 90% of rated capacity)		5 N	5 N	5 N	5 N	/ N
Communication		DOACO	for LIPC and	unation atotics	d moosure	avala
Shutdown software (on CD)		Included for al	tor UPS configu	systems (e.g. Win	d measurement i dows Mac Linux I	evers Inix Sun etc)
Failure indicators (acoustical / optical)	LED bar graph for UPS load and battery capacity.					
		indicators for	mains failure, ov	erload, battery di	scharge, battery re	place, failure
General data						
Efficiency total			85 %	88 %	> 88	%
Operating temperature range		< 45 UB (A)	< 50 (0° – 40°C	< 55 UE	(A)
EMC immunity			EN	61000-4 Part 2 t	o 5	
EMC emission		EN	61000-6-3 Class		EN 61000-6-	3 Class A
Humidity	0 - 90 % (non condensing)					
Installation height		Up to 1000 m, at nominal load				
Number of outlets	Tower	4 x IEC 320-10 A	6 x IEC 320-10 A	4 x IEC 320-10 A	Terminal	block
	Back	4 x IEC 3	20-10 A	1 x IEC 320-10 A	(permanent c Terminal	block
	. In the lot			+1xIEC320-16A	(permanent c	onnection)
Equipment colour	-		100 0	Black line		
Size appr. W x H x D (mm)	lower Battery	145 x 220 x 400	192 x 340 x 460		260 x /1/ x 5/0	
	Rack	482.6 x 88 x 450	482.6 x	88 x 450	482.6 x 132 x 600	-
	Battery	integrated	482.6 x	88 x 450	482.6 x 132 x 600	-
Weight appr. (kg)	Tower	15 kg	34 kg	35 kg	90 kg	93 kg
Shinment	Kack	16.5 kg Mains-Cord 3	10 kg + 29 kg load-cords (type	11 kg + 29 kg	18 kg + 64 kg	- vication cable
ompinent		man	agement softwa	re "CompuWatcl	h" (CD), user-man	ual
Certification				CE		
		Specifications are subj	ect to change without	notice. AEG0206EN		
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