

PRODUCT PRESENTATION

PROTECT C (1-3kVA)

DATA & IT, C-UPS



AEG
POWER SOLUTIONS

AEG'S COMMERCIAL COMPACT-UPS PRODUCT PORTFOLIO AND FIELD APPLICATION

Surge protection	Home, SoHo	PROTECT BASIC Power strip for all standard applications 	PROTECT TRAVEL Security on the move for safety charging of your devices 	PROTECT ENTERTAINMENT Intelligent protection for entertainment equipment with master-slave-function 	PROTECT TWINPOWER Security for flexible connectivity and safe power supply 	PROTECT BUSINESS Business solution with surge protection and USB-Charger 	PROTECT OFFICE Compact protection for PC and peripheral equipment 
		PROTECT HOME 600 VA Complete protection for multimedia applications 	PROTECT alpha 450 bis 1200 VA Suitable protection for SoHo applications, telephone equipment, NAS systems, PCs 	PROTECT A 500 bis 1400 VA Protection for PCs, workstations and telephone equipment 	PROTECT B 500 bis 1500 VA sinusoidal outputvoltage, Surge protection for telephone, fax, router and network 		
Compact UPS	Office, SoHo, IT segment	PROTECT B.PRO 750 bis 3000 VA Efficient rack / tower UPS for small server and network components with sinusoidal output 	PROTECT C 1000 bis 10000 VA Tower UPS for sensitive networks, intranet and internetserver 	PROTECT D 1000 bis 10000 VA Compact UPS for rack mounted protection of server, network and IT equipment 	PROTECT 1 10000 bis 20000 VA For small data centres, protection of cash till systems & building facilities 	PROTECT 1.M 4000 bis 24000 VA Scalable and modular high performance UPS system for the IT sector 	

CLASSIFICATION ACC. TO UPS PRODUCT NORM IEC 62040-3



Voltage Phenomenon		Time	e.g.	IEC 62040-3	UPS solution	Arrester solution
PROTECT C	1. Outage - blackouts	> 10 ms		VFD Voltage + Frequency Dependent	Classification 3 Offline	_____
	2. Sags / brownouts					_____
	3. Dynamic overvoltage					_____
	4. Undervoltage	continuous		VI Voltage Independent	Classification 2	_____
	5. Overvoltage	continuous			Line-Interactive	_____
	6. Transients (Surge)	< 4 ms		VFI Voltage + Frequency Independent	Classification 1 (true) Online real Double-Conversion	Limited protection via UPS (extended protection recommended (10.))
	7. Frequency variations					_____
	8. Voltage distortion (Burst)					see as well 10.
	9. Voltage harmonics					_____
	10. Lightning	sporadic			_____	Surge- and Over-voltage protection (IEC 60364-5-534)

PRODUCT HIGHLIGHTS



AEG
POWER SOLUTIONS

POWER STEPS (FIRST STAGE OF FURTHER DEVELOPMENT)



1000 VA



2000 VA



3000 VA

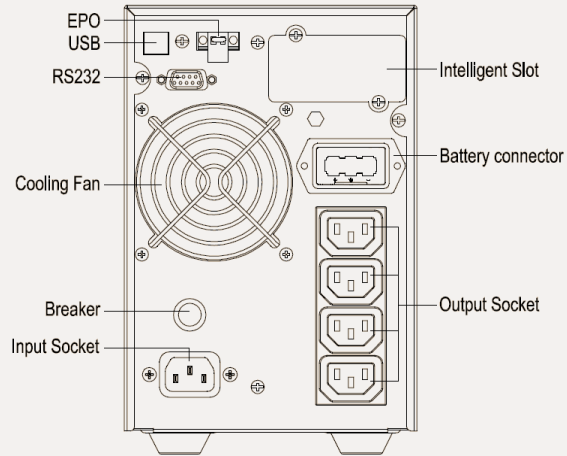
PRODUCT HIGHLIGHTS



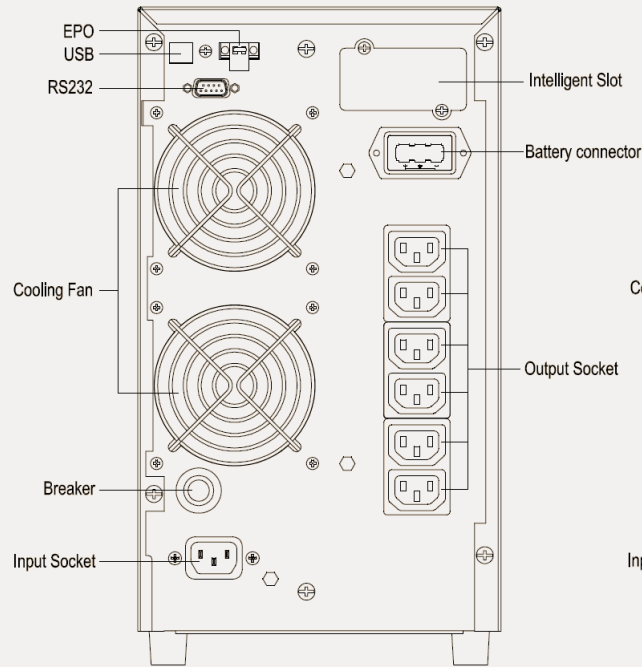
- On-Line technology VFI SS 111* (double-conversion)
- Power factor 0.8 lagging
- Same compact size as predecessor
- Graphical multilingual LCD display
- Data logger for 50 events (saving events inside UPS)
- Dual monitoring interface
USB or RS232 / communication slot
- Emergency Power Off contact
- Frequency converter mode

* excl. ECO mode

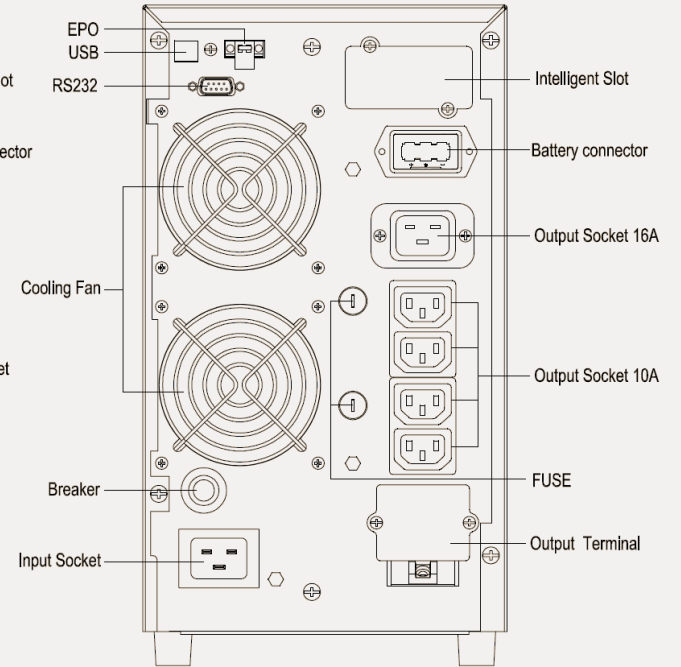
REAR VIEW >> CONNECTIONS



1000 VA



2000 VA



3000 VA

REAR VIEW >> CONNECTIONS



1000 VA

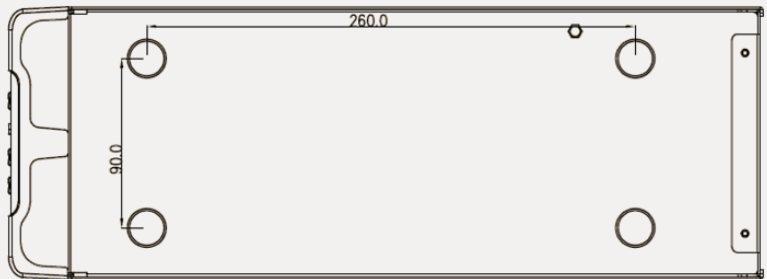
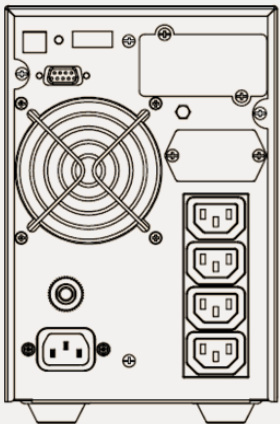
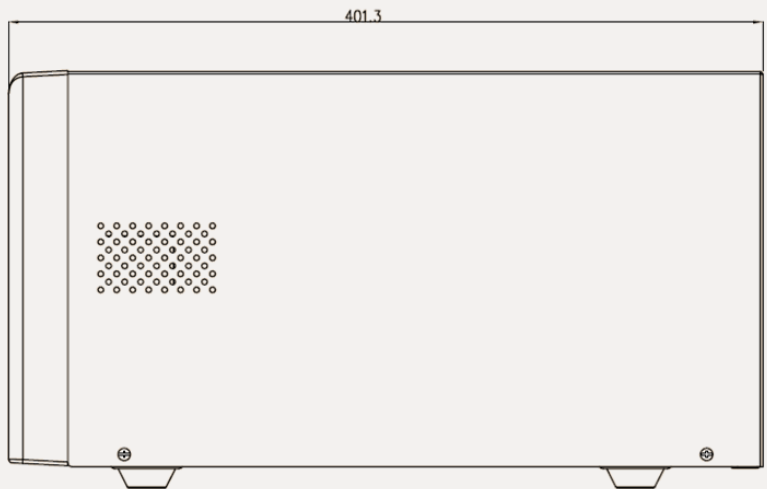
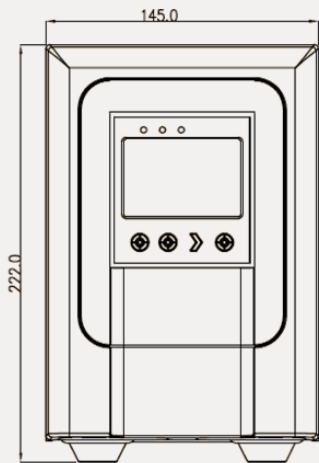


2000 VA

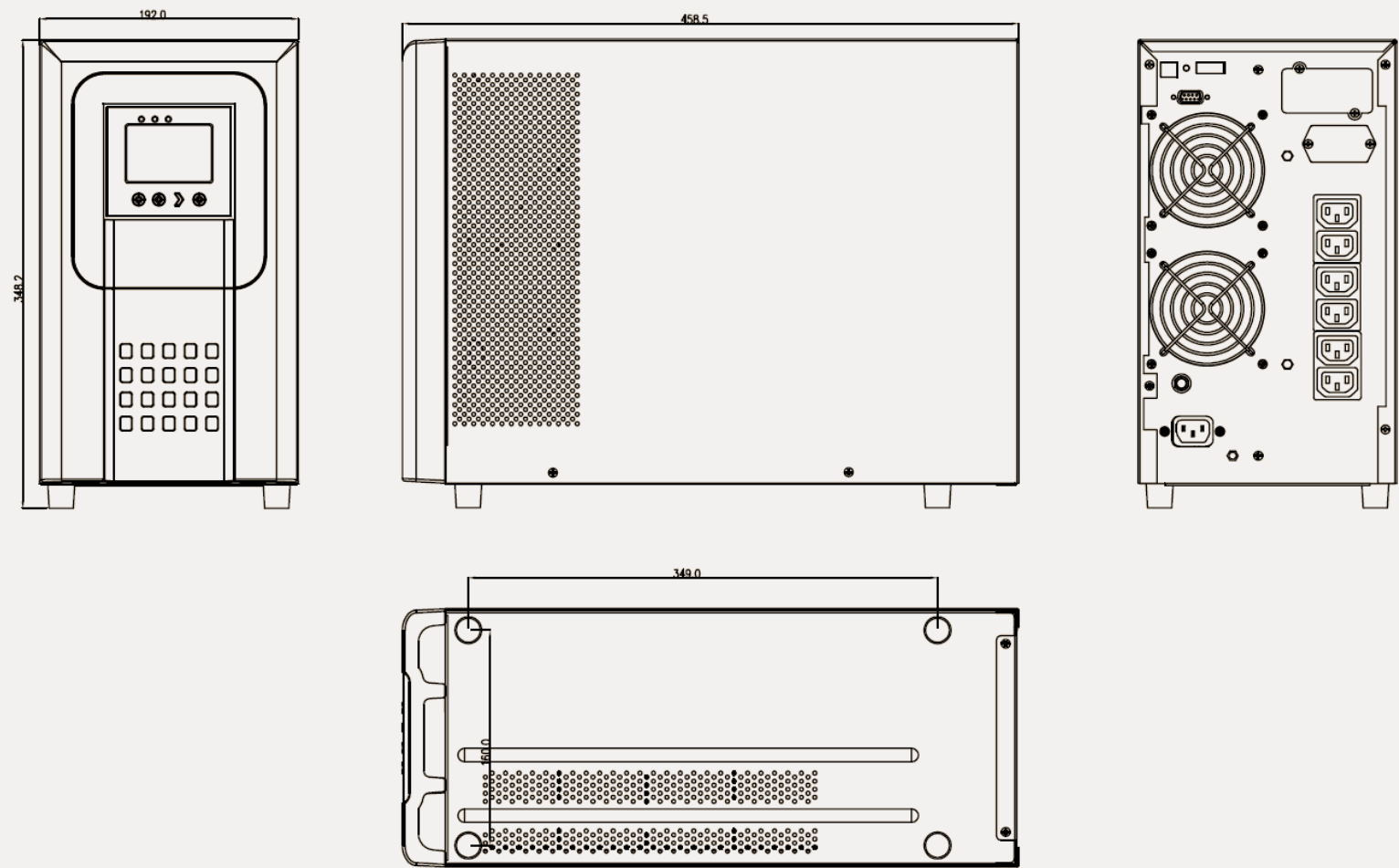


3000 VA

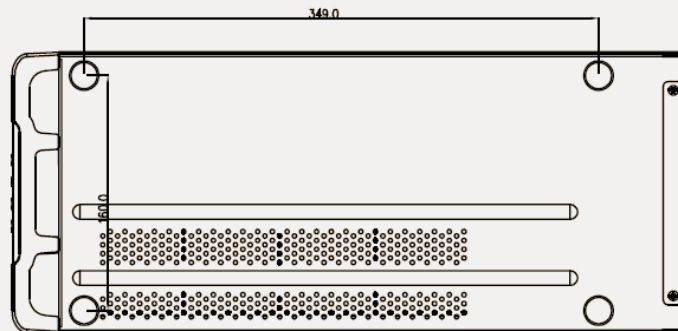
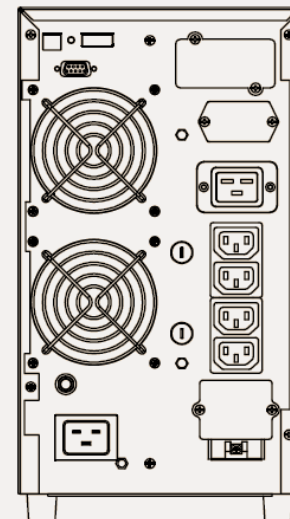
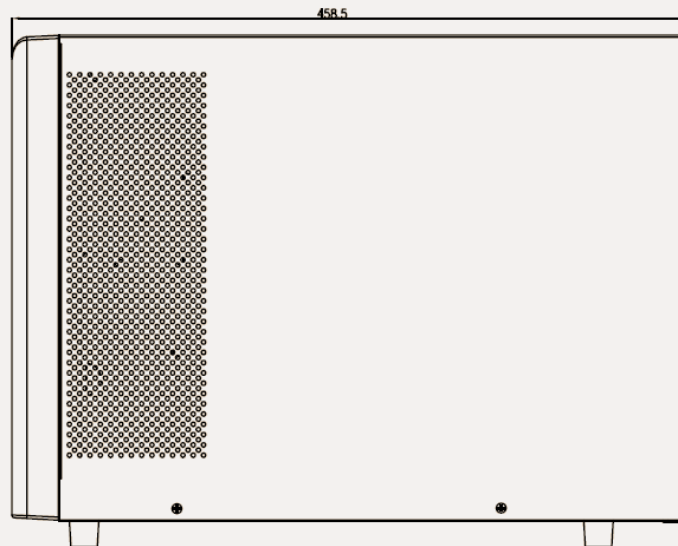
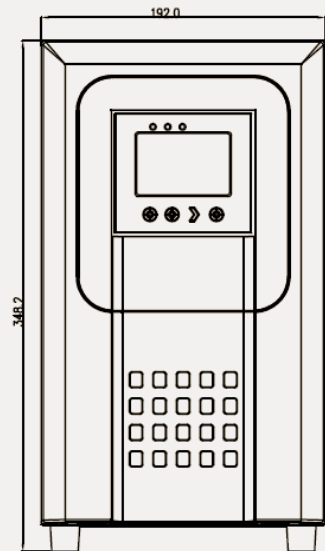
PROTECT C.1000 >> DIMENSIONS



PROTECT C.2000 >> DIMENSIONS



PROTECT C.3000 >> DIMENSIONS



EXTERNAL BATTERY PACKS



Locked external battery pack connection

AUTONOMY TIME DATA



Autonomy time ($\cos \varphi = 0.7 \text{ lag.}$)
Data at full load / half load [min.]

UPS with integrated battery system
UPS with integrated battery system
plus 1 additional battery extension
UPS with integrated battery system
plus 2 additional battery extensions

C.1000

C.2000

C.3000

6 / 21

10 / 30

5 / 16

38 / 97

55 / 130

30 / 85

76 / 170

106 / 237

60 / 149

AUTONOMY TIME DATA AT PART LOAD



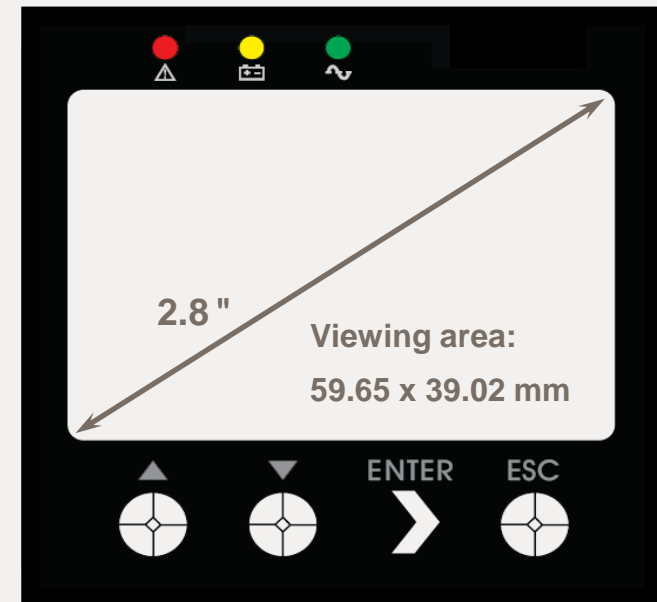
PROTECT C (LCD version) at $\cos \varphi = 0.8$ lag. and at ...	25% load	50% load	75% load	100% load
PROTECT C.1000 (1000VA)	= 200 W	= 400 W	= 600 W	= 800 W
with integrated battery system	35 min.	13.5 min.	7 min.	4.5 min.
with 1x PROTECT C.1000 BP	165 min.	58 min.	38 min.	25 min.
with 2x PROTECT C.1000 BP	297 min.	137 min.	70 min.	51 min.
PROTECT C.2000 (2000VA)	= 400 W	= 800 W	= 1200 W	= 1600 W
with integrated battery system	52 min.	20 min.	12 min.	7 min.
with 1x PROTECT C.2030 BP	225 min.	85 min.	54 min.	38.5 min.
with 2x PROTECT C.2030 BP	416 min.	184 min.	108 min.	70 min.
PROTECT C.3000 (3000VA)	= 600 W	= 1200 W	= 1800 W	= 2400 W
with integrated battery system	29 min.	11 min.	6 min.	3.5 min.
with 1x PROTECT C.2030 BP	154 min.	53 min.	31 min.	21 min.
with 2x PROTECT C.2030 BP	254 min.	98 min.	59 min.	45 min.

MORE EASY TO OPERATE

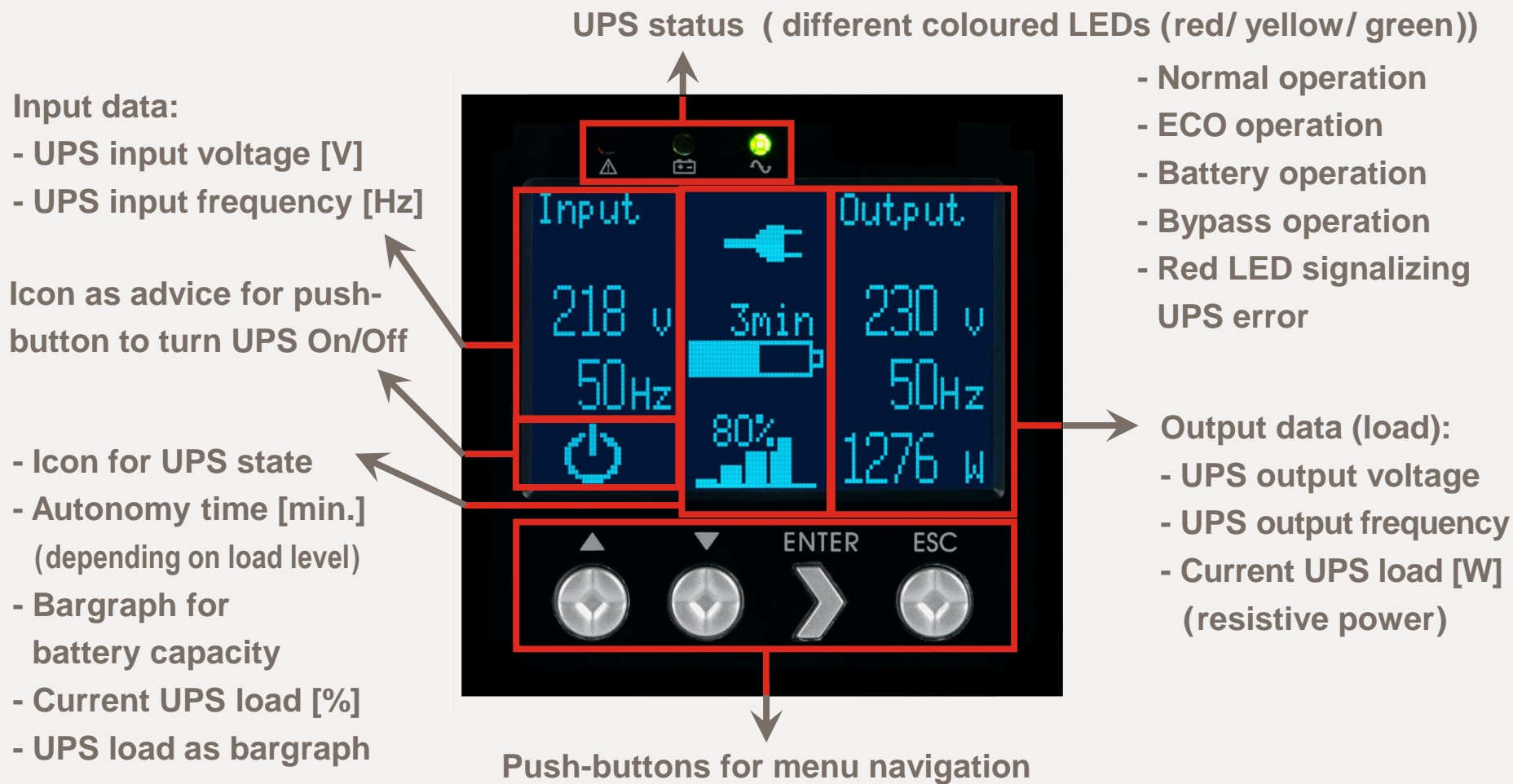


- LCD Display for UPS status, Control, Settings, Measurements, Event Log, Identification
- Real time clock (synchronized automatically)
- Data logger for 50 events
- Display operation lockable; settings password protected

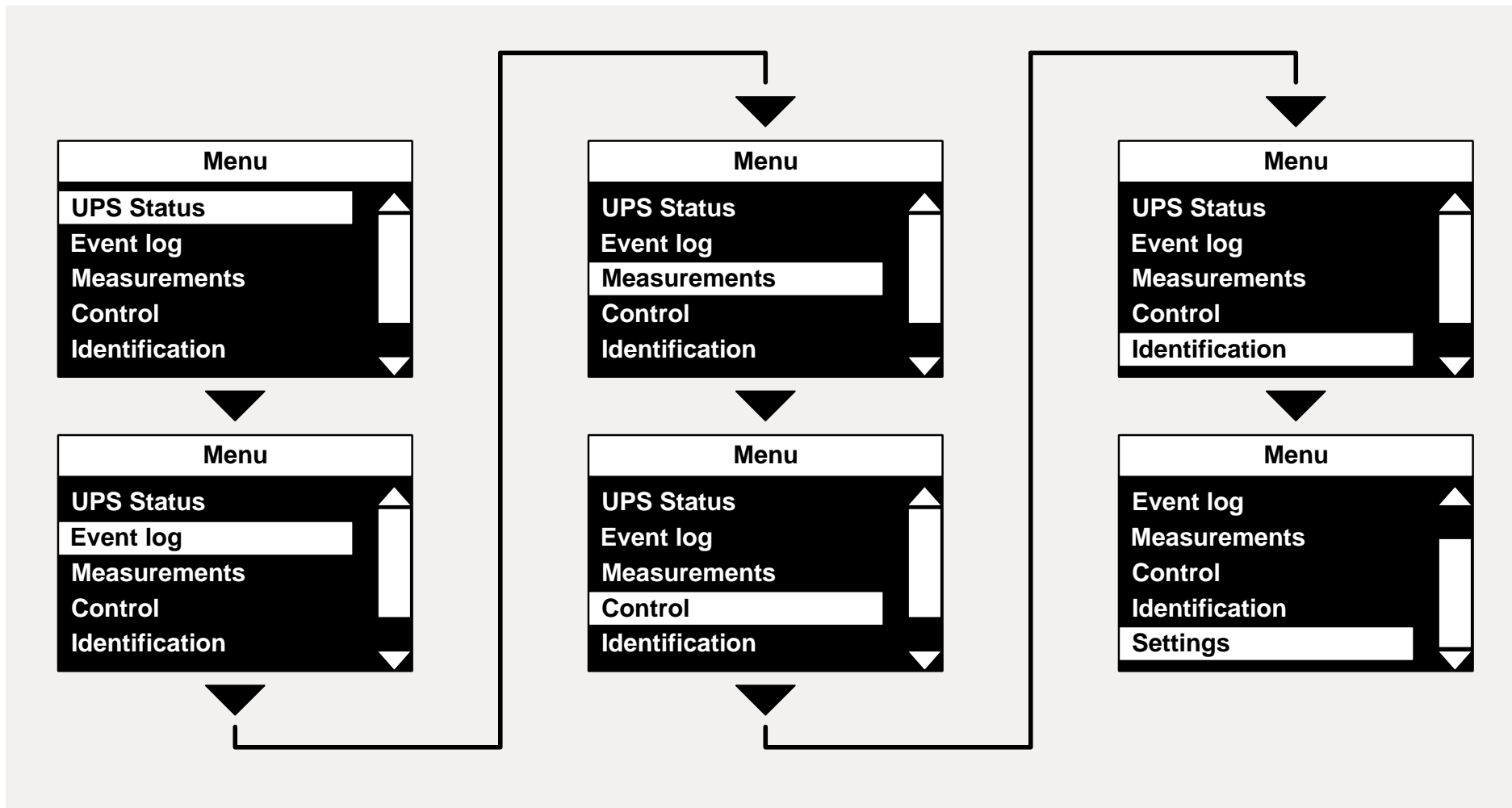
- Graphical LCD display (128 x 64 pixel)
- Multilingual > 5 languages (EN / DE / FR / ES / RU)



LCD DISPLAY – STATUS SCREEN – OVERVIEW, E.G. PROTECT C.2000 AT NORMAL (DOUBLE-CONVERSION) OPERATION



LCD DISPLAY – MAIN MENU

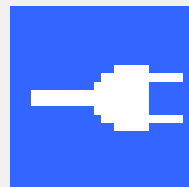


LCD DISPLAY – ICONS FOR STATUS

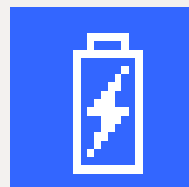


PROTECT C.2000 (normal operation)

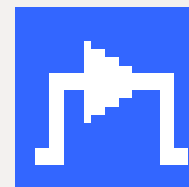
UPS normal



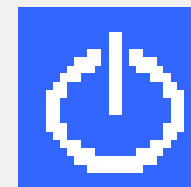
on battery



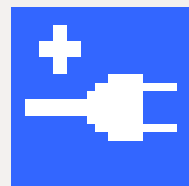
on bypass



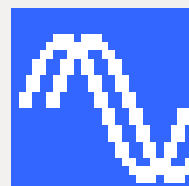
on stand-by



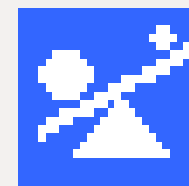
ECO mode



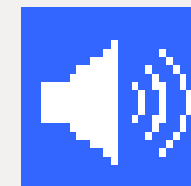
converter



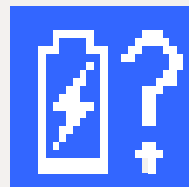
overload



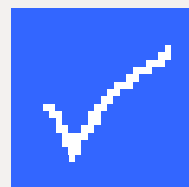
alarm active



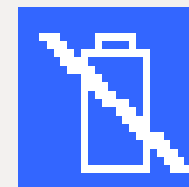
battery check



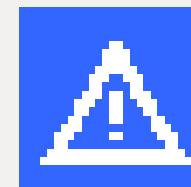
battery okay



no/ bad battery



critical fault



LCD DISPLAY – SETTINGS

Settings	
Change language	▲
User password	■
Audible alarms	
Set date and time	
Control commands from serial port	▼

Settings	
Change language	▲
User password	■
Audible alarms	
Set date and time	
Control commands from serial port	▼

Settings	
Change language	▲
User password	■
Audible alarms	■
Set date and time	
Control commands from serial port	▼

Settings	
Change language	▲
User password	■
Audible alarms	
Set date and time	■
Control commands from serial port	▼

Settings	
Change language	▲
User password	■
Audible alarms	
Set date and time	
Control commands from serial port	▼

Settings	
User password	▲
Audible alarms	■
Set date and time	
Control commands from serial port	
Output voltage	▼

Settings	
Audible alarms	▲
Set date and time	■
Control commands from serial port	
Output voltage	
Output frequency	▼

Settings	
Set date and time	▲
Control commands from serial port	■
Output voltage	
Output frequency	
Load alarm level	▼

Settings	
Control commands from serial port	▲
Output voltage	■
Output frequency	
Load alarm level	
Power strategy	▼

Settings	
Output voltage	▲
Output frequency	
Load alarm level	■
Power strategy	
Start w/o mains	▼

Settings	
Output frequency	▲
Load alarm level	
Power strategy	■
Start w/o mains	
Site wiring fault alarm	▼

Settings	
Power strategy	▲
Start w/o mains	
Site wiring fault alarm	■
External battery modules	▼

Settings	
Site wiring fault alarm	▲
External battery modules	■
Battery charge % to restart	▼

Settings	
External battery modules	▲
Battery charge % to restart	■
Automatic battery tests	▼

Settings	
Battery charge % to restart	▲
Automatic battery tests	■
Periodic battery test	▼

Settings	
Automatic battery tests	▲
Periodic battery test	
Ambient temperature warning	■

Settings	
Periodic battery test	▲
Ambient temperature warning	
REPO operation	▼

Settings	
Ambient temperature warning	▲
REPO operation	
Reset Cumulative Consumption kWh	■

Settings	
Ambient temperature warning	▲
REPO operation	
Reset Cumulative Consumption kWh	■
Battery limit time	▼

Settings	
REPO operation	▲
Reset Cumulative Consumption kWh	
Battery Limit Time	■
Auto Reboot	▼

Settings	
REPO operation	▲
Reset Cumulative Consumption kWh	
Battery Limit Time	
Auto Reboot	■
Auto Bypass	▼

Settings	
Battery Limit Time	▲
Auto Reboot	
Auto Bypass	
Start Without Battery	■

Settings	
Battery Limit Time	▲
Auto Reboot	
Auto Bypass	
Start Without Battery	■
Clear event log	▼

Settings	
Auto Reboot	▲
Auto Bypass	
Start Without Battery	
Reset Cumulative Consumption kWh	■
Battery limit time	▼

Settings	
Start Without Battery	▲
Clear event log	
LCD contrast	■
Restore factory settings	▼



- PROTECT C with 1000 VA or 2000 VA or 3000 VA
- Mains connection cable with safety plug
- 2 device connecting cables (10A) (when C.3000 1x 10A and 1x 16A)
- USB communication cable
- Management software “CompuWatch” on CD incl. 5 network licences
- Safety instructions
- Operating instructions