

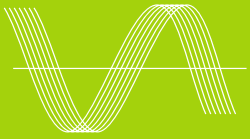
DATA SHEET

ECO Pro CDS 19" 2U
700/1000/1200 VA

WARRANTY

3 YEARS

CLEAR DIGITAL
SINUS SYSTEM
(CDS)



COOL BATTERY
CHARGING SYSTEM
(CBC)



IEC 320
OUTPUT OUTLETS



The EVER **ECO Pro CDS Rack** battery back-ups are dedicated for **PCs, workstations, computer and Internet terminals** and **telecommunication devices**. The ECO Pro CDS Rack-series products offer the "cold start" option which makes it possible to start the UPS in battery operation mode without connection to the mains.

FEATURES

- "Cold start" – option of starting the UPS in battery operation mode without connection to the mains
- Filtering of the mains voltage
- Telecommunications filter
- PowerSoft Professional – software designed for safe shutdown of operating systems

The ECO Pro CDS series is equipped with unique systems developed by EVER engineers:

- **CDS - Clear Digital Sinus** - system that enables the battery back-up to generate true sine wave output voltage in battery operation mode,
- **CBC - Cool Battery Charging** - quick and efficient charging system that cuts charging time and extends the operating life of the back-up's accumulators.

COMMUNICATION

- RS232 communication interface

PROTECTION

- Overload
- Short circuit
- Surge

SERVICE

- Door-to-door support
- 3-year warranty for the UPS
- 2-year warranty for batteries
- Execution in 14 working days



ECO Pro CDS 19" 2U

700/1000/1200 VA



TECHNICAL DATA

PARAMETERS \ TYPE	ECO Pro 700 CDS 19" 2U	ECO Pro 1000 CDS 19" 2U	ECO Pro 1200 CDS 19" 2U
Part number	W/EPCDRM-000K70/00	W/EPCDRM-001K00/00	W/EPCDRM-001K20/00
Output Power (Apparent / Active) ¹⁾	700 VA / 420 W	1000 VA / 650 W	1200 VA / 780 W
GENERAL DATA AND ENVIRONMENTAL			
Topology	VFD (offline)		
Number of phases (in/out)	1 / 1		
Housing Type	Rack		
Operating temperature ²⁾	0 ÷ +40 °C		
Storage temperature	0 ÷ +40 °C		
Relative humidity during operation	20 ÷ 80 % (non-condensing)		
Relative humidity during storage	20 ÷ 95 % (non-condensing)		
Operating elevation ³⁾	< 1000 m		
Protection level	IP20		
Environment of installation	Office / industrial rooms with low level of pollution		
Cooling	Gravity		
INPUT			
Nominal input voltage	230 V AC		
Input voltage range and tolerance	~ 184 ÷ 264 V ± 2 %		
Input voltage rated frequency	50 Hz		
Input voltage frequency range and tolerance	45 ÷ 55 Hz ± 1 Hz		
Transfer thresholds: Mains – UPS	~ 184 ÷ 264 V ± 2 %		
OUTPUT			
Nominal output voltage	230 V AC		
Output voltage range and tolerance - normal mode	~ 184 ÷ 264 V ± 2 %		
Output voltage range and tolerance - battery mode	~ 230 V ± 5 %		
Shape of output voltage (battery mode / normal mode)	Sine wave / same as input		
Output voltage rated frequency	50 Hz		
Output frequency range and tolerance - mains operation mode	Synchronously		
Output frequency range and tolerance - battery mode	50 Hz ± 1 Hz		
Output voltage filtering	RFI/EMI filter, varistor TVSS		
Transfer thresholds: UPS – Mains	~ 189 V / 259 V ± 2 %		
Transfer time to battery mode	< 3 ms		
Transfer time to normal mode	0 ms		
BATTERIES AND TYPICAL RUNTIME			
Internal Batteries	12 V / 7 Ah VRLA	12 V / 5 Ah VRLA	
Number of internal batteries	1	2	
Maximum overall internal batteries capacity	7 Ah	5 Ah	
Backup time - internal batteries (100 % / 80 % / 50 % Pmax)	3 / 5 / 9 min	3 / 4 / 8 min	3 / 4 / 7 min
Nominal voltage DC circuit	12 V DC	24 V DC	
Internal batteries maximum charging time - after discharging at 80 % Pmax*	7 h	5 h	

Note: The manufacturer reserves the right to modify the above parameters without prior notification.

* Charging time to 90% battery capacity, following a prior discharge with a load of 80% Pmax.

Notes:

- 1) For standard operation, the load applied to the output must not exceed 80% of the value in the table. The power margin is necessary to ensure continuous work of the connected devices in the case of instantaneous surges of the load.
- 2) For UPS with internal batteries 5 ÷ 35 °C. Constant exposure of the battery module to temperatures of +25°C reduces the battery life.
- 3) The permitted maximum load of the power supply unit decreases with the height above the sea level above the limit specified above.

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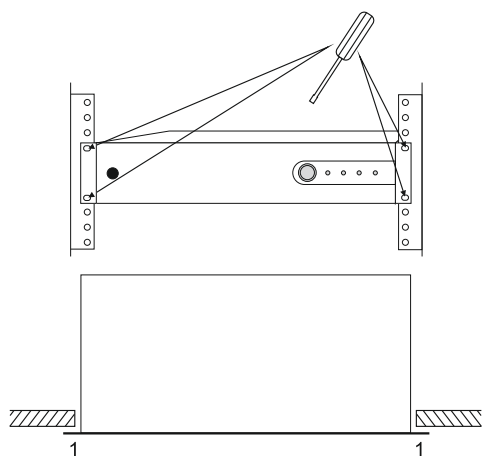
TECHNICAL DATA

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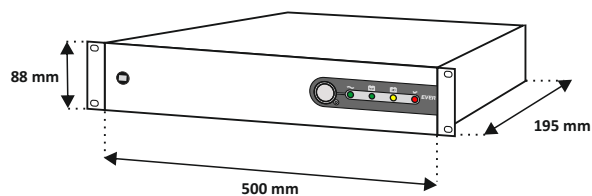
PARAMETERS \ TYPE	ECO Pro 700 CDS 19" 2U	ECO Pro 1000 CDS 19" 2U	ECO Pro 1200 CDS 19" 2U
Part number	W/EPCDRM-000K70/00	W/EPCDRM-001K00/00	W/EPCDRM-001K20/00
Output Power (Apparent / Active) ¹⁾	700 VA / 420 W	1000 VA / 650 W	1200 VA / 780 W
MECHANICAL SPECIFICATIONS			
Dimensions (H x W x D)	88 (2U) x 485 (19") x 190 mm		
Net Weight	9,3 kg		12,5 kg
Gross Weight	10,2 kg		13,2 kg
Transport Dimensions (H x W x D)	160 x 505 x 260 mm		
Position in which devices transported	Horizontal		
Output cables maximum length	< 10 m		
PROTECT			
Input over current protection	Short-circuit protection - Fuse 5 x 20 mm 5 A / 250 V AC	Short-circuit protection – Fuse 5 x 20mm 8 A / 250 V AC	
Output over current protection	Surge Protection Electronic short-circuit and overload protection		
ACCESSORY AND EXTRA FUNCTIONS			
Power supply connection	Power cord ended with plug with ground terminal 16A (PN-E-93201:1997) + uni-schuko + uni-schuko		
Output connection (number and type of sockets)	4 x IEC 320 C13 (10A)		
Signalling	Acoustic and optical; LED		
Communications interfaces	RS 232, simple signaling		
Telecom filter - RJ11	Yes		
Software	PowerSoft Professional		
CERTIFICATION			
Declarations	CE		
Standards	PN-EN 62040-1:2009, PN-EN 62040-2:2008		

MOUNTING THE BATTERY BACK-UP

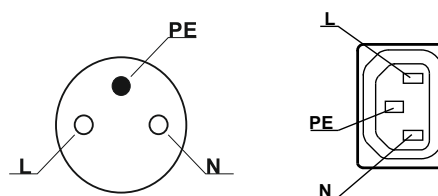
- 1) Slide the UPS onto the rack's frame
- 2) Move the front handles (1) to the rack's frame and screw them down



DIMENSIONS



LAYOUT OF TERMINALS IN THE POWER AND OUTLET SOCKET

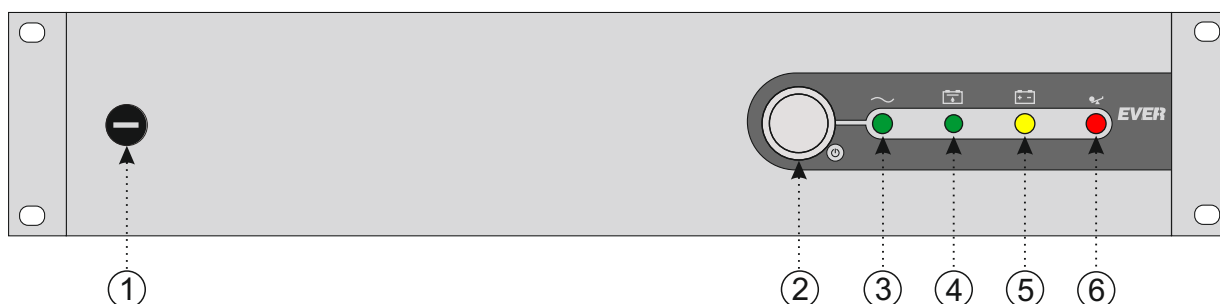


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FRONT PANEL



- 1) Fuse.
- 2) Power switch – when there is no mains voltage or when the battery back-up is not connected to the mains socket, it starts the UPS in the battery operating mode – see also "cold start".
- 3) Signalling LED – mains operation mode (green).
- 4) Signalling LED – battery charging (green).
- 5) Signalling LED – battery operation mode (yellow).
- 6) Signalling LED – overload (red).

REAR PANEL



- 1) Communication port RS232.
- 2) Telephone filter sockets.
- 3) Outlet sockets 4 x IEC 320 C13 (10A).
- 4) Power cord.