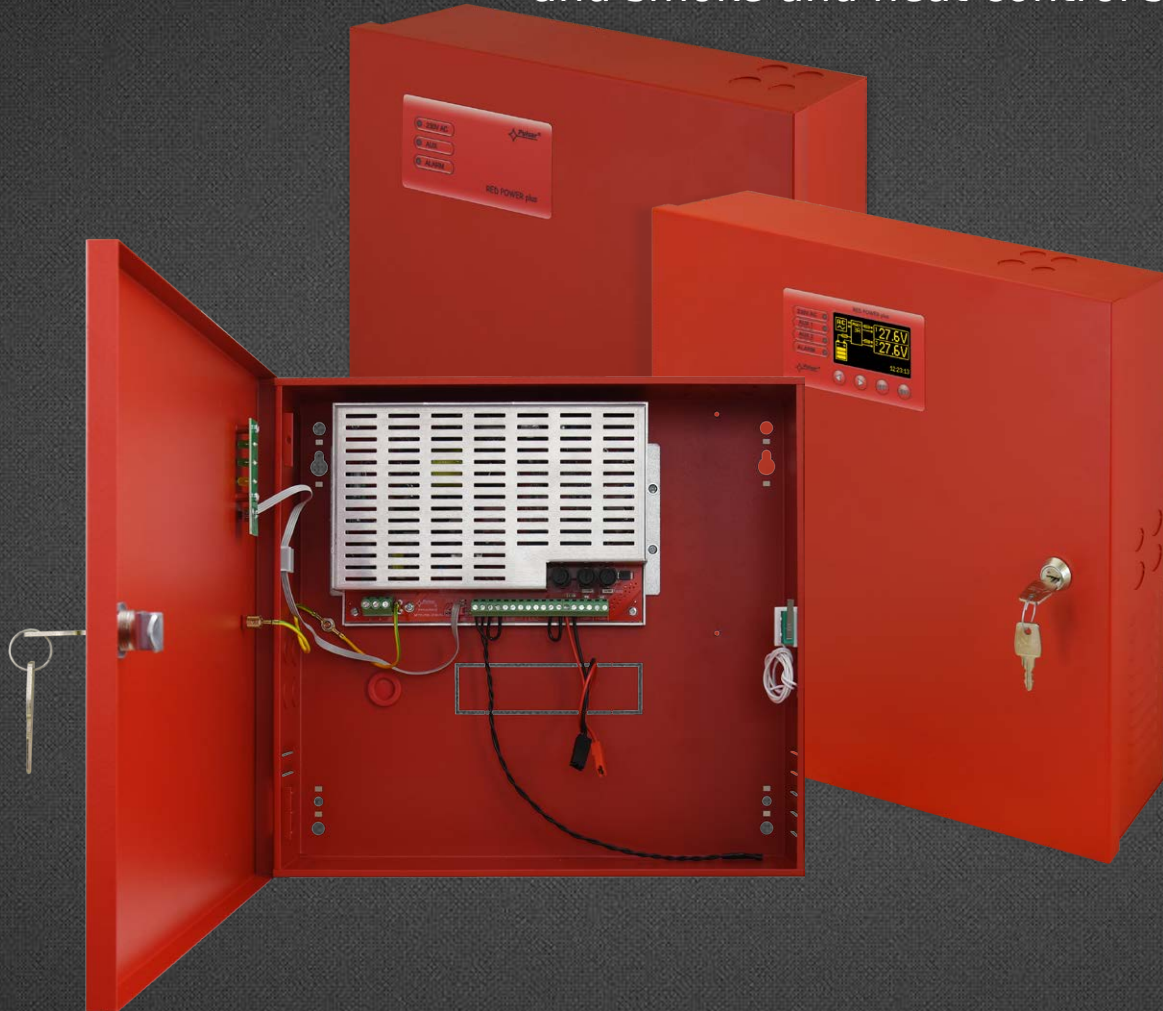


Buffer power supply units

certified with: EN54-4, EN12101-10

Power supply units for fire alarm systems
and smoke and heat control systems



EN54C series

EN54M series

Certification:



EN54C series
Certificate of constancy
of performance
CNBOP-PIB No 1438-CPR-0628
Certificate of approval
CNBOP-PIB No 3501/2019

EN54M series
Certificate of constancy
of performance
CNBOP-PIB No 1438-CPR-0630



Certificate of constancy
of performance
CNBOP-PIB No 1438-CPR-0628

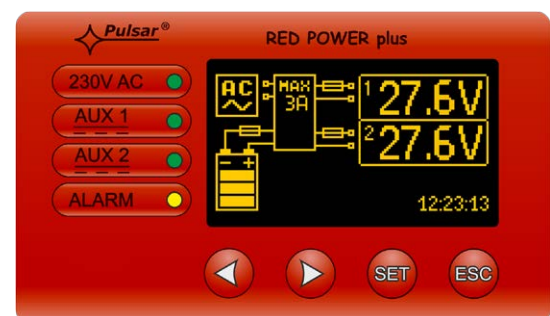
Certificate of approval
CNBOP-PIB No 3501/2019

Features

- in accordance with standards: EN 54-4, EN12101-10
- available versions with 2A/3A/5A/10A current
- available versions with space for 7Ah - 65Ah batteries
- independently protected outputs AUX1 and AUX2
- high efficiency (up to 89%)
- low level of voltage ripple
- microprocessor-based automation system
- measurement of resistance of battery circuit
- automatic temperature-compensated charging
- automatic battery test
- two-stage battery charging process
- accelerated battery charging
- monitoring of continuity of battery circuit
- monitoring of battery voltage
- monitoring of charging and maintenance of batteries
- cooperation with EN54C-LB4 and EN54C-LB8 fuse modules (optional equipment)
- cooperation with EN54C-LS4 and EN54C-LS8 sequential modules (optional equipment)
- deep discharge battery protection (UVP)
- battery overcharge protection
- LoB low battery voltage indication
- brackets set - EN54C-BR (optional equipment)
- battery output protection against short-circuit and reverse connection
- output voltage control
- fuse monitoring of AUX1 and AUX2 outputs
- relay output of collective failure ALARM
- EPS relay output indicating 230V power loss
- EXTi input of external failure
- protections:
 - SCP short-circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - antisabotage protection - tamper
 - closing enclosure - lock
- convection cooling (forced only in EN54C-10Axx)
- warranty: 3 years from production date

Additional features of LCD series

- „SERIAL“ communication port with implemented MODBUS RTU protocol and TCP/IP - list of registers is available
- optical indication - graphic LCD display
 - display of electrical parameters, e.g. voltage, current, resistance of circuit
 - failure indication
 - PSU settings adjustable from panel's level
 - adjustable delay for 230VAC power loss indication
 - 2 levels of password protected access
 - operation memory of PSU
 - failure memory
 - A real-time clock (RTC) with battery backup
- remote monitoring
 - Ethernet communication or RS485
 - online remote monitoring of operating parameters: voltage, current, temperature and resistance in battery circuit
 - PSU operation history from period of 113 days: voltage, current, and resistance in battery circuit
 - battery operating temperature readings from period up to 5 years
 - event log of up to 2048 power supply failures
 - SSL email encryption
 - remote battery test
 - automatic email notifications about failures



Buffer power supply units EN54C series

RED POWER plus

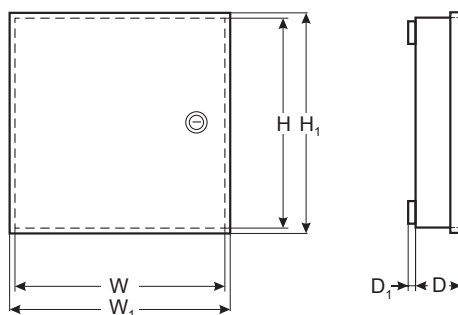


LED display



LCD display

Code		Output voltage	Total current		Fitting battery	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
LED panel	LCD panel		for continuous operation I _{max a} + I _{lad}	for intermittent operation I _{max a} + I _{lad}		
EN54C-2A7	—	27,6VDC	1,6A + 0,4A	2A + 0A	2×7Ah	330×305×82+8 335×308
EN54C-2A17	—		1,2A + 0,8A	2A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-3A7	—		2,6A + 0,4A	3A + 0A	2×7Ah	330×305×82+8 335×308
EN54C-3A17	EN54C-3A17LCD		2,2A + 0,8A	3A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-3A28	—		1,8A + 1,2A	3A + 0A	2×28Ah	420×407×178+8 425×411
EN54C-5A7	—		4,6A + 0,4A	5A + 0A	2×7Ah	330×305×82+8 335×308
EN54C-5A17	EN54C-5A17LCD		4,2A + 0,8A	5A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-5A28	—		3,8A + 1,2A	5A + 0A	2×28Ah	420×407×178+8 425×411
EN54C-5A40	EN54C-5A40LCD		3,2A + 1,8A	5A + 0A	2×40Ah	410×648×180+8 416×652
EN54C-5A65	—		2,4A + 2,6A	5A + 0A	2×65Ah	410×648×180+8 416×652
EN54C-10A17	EN54C-10A17LCD		9,2A + 0,8A	10A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-10A28	—		8,8A + 1,2A	10A + 0A	2×28Ah	420×407×178+8 425×411
EN54C-10A40	EN54C-10A40LCD		8,2A + 1,8A	10A + 0A	2×40Ah	410×648×180+8 416×652
EN54C-10A65	—		7,4A + 2,6A	10A + 0A	2×65Ah	410×648×180+8 416×652





Certificate of constancy
of performance
CNBOP-PIB No 1438-CPR-0630

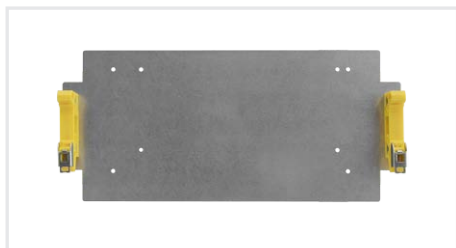
To be able to install module of PSU in fire alarm system, it has to be placed in enclosure of appropriate design and make complementary examinations to achieve certificate EN54-4+A1+A2 or EN12101-10+AC in accredited institution

Features

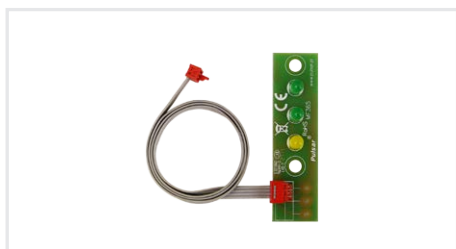
- built-in power supply module
- in accordance with standards: EN 54-4, EN12101-10
- 27,6 V DC uninterruptible power supply
- available versions with 2A/3A/5A/10A current
- available versions with space for 7Ah - 65Ah batteries
- independently protected outputs AUX1 and AUX2
- DIN rail mounting using additional EN54M-DIN1 bracket (optional equipment)
- cooperation with EN54C-LB4 and EN54C-LB8 fuse modules (optional equipment)
- cooperation with EN54C-LS4 and EN54C-LS8 sequential modules (optional equipment)
- optical indication - LED panel EN54M-LED (option)
- high efficiency (up to 89%)
- low level of voltage ripple
- microprocessor-based automation system
- measurement of resistance of battery circuit
- automatic temperature-compensated charging
- automatic battery test
- two-stage battery charging process
- accelerated battery charging
- monitoring of continuity of battery circuit
- monitoring of battery voltage
- monitoring of charging and maintenance of batteries
- deep discharge battery protection (UVP)
- battery overcharge protection
- LoB low battery voltage indication
- battery output protection against short-circuit and reverse connection
- output voltage control
- fuse monitoring of AUX1 and AUX2 outputs
- relay output of collective failure ALARM
- EPS relay output indicating 230V power loss
- EXTi input of external failure
- protections:
 - SCP short-circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- convection cooling (forced only in EN54M-10Axx)
- warranty: 3 years from production date

Buffer power supply modules EN54M series

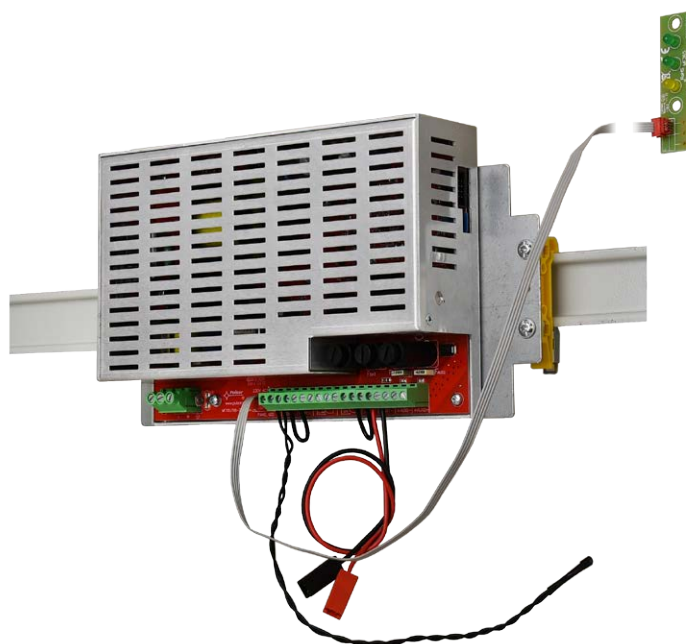
RED POWER plus



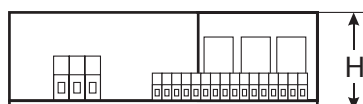
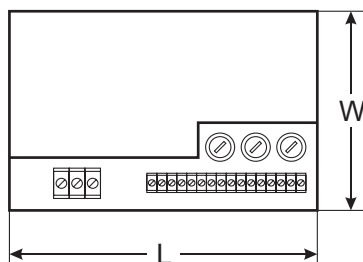
EN54M-DIN1
Bracket DIN/EN54M 1



EN54M-LED
Set for optical indication EN54M



Code	Output voltage	Total current		Battery	Dimensions L×W×H [+/- 2mm]
		for continuous operation $I_{max a} + I_{lad}$	for intermittent operation (5 min) $I_{max a} + I_{lad}$		
EN54M-2A7	27,6VDC	1,6A + 0,4A	2A + 0A	2×7,2Ah	200×120×48
EN54M-2A7-17		1,2A + 0,8A	2A + 0A	2×7÷20Ah	
EN54M-3A7-17		2,2A + 0,8A	3A + 0A	2×7÷20Ah	
EN54M-3A17-40		1,2A + 1,8A	3A + 0A	2×17÷45Ah	204×141×52
EN54M-5A7-17		4,2A + 0,8A	5A + 0A	2×7÷20Ah	
EN54M-5A17-40		3,2A + 1,8A	5A + 0A	2×17÷45Ah	
EN54M-5A40-65		2,4A + 2,6A	5A + 0A	2×40÷65Ah	237×168×55
EN54M-10A17-40		8,2A + 1,8A	10A + 0A	2×17÷45Ah	
EN54M-10A40-65		7,4A + 2,6A	10A + 0A	2×40÷65Ah	



Accessories for power supply units EN54C and EN54M series

Fuse modules, sequential modules, brackets, optical indication

EN54C-LB4

LB4/0,5A/FTA fuse module EN54C



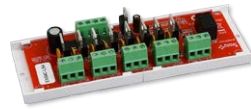
EN54C-LB8

LB8/0,5A/FTA fuse module EN54C



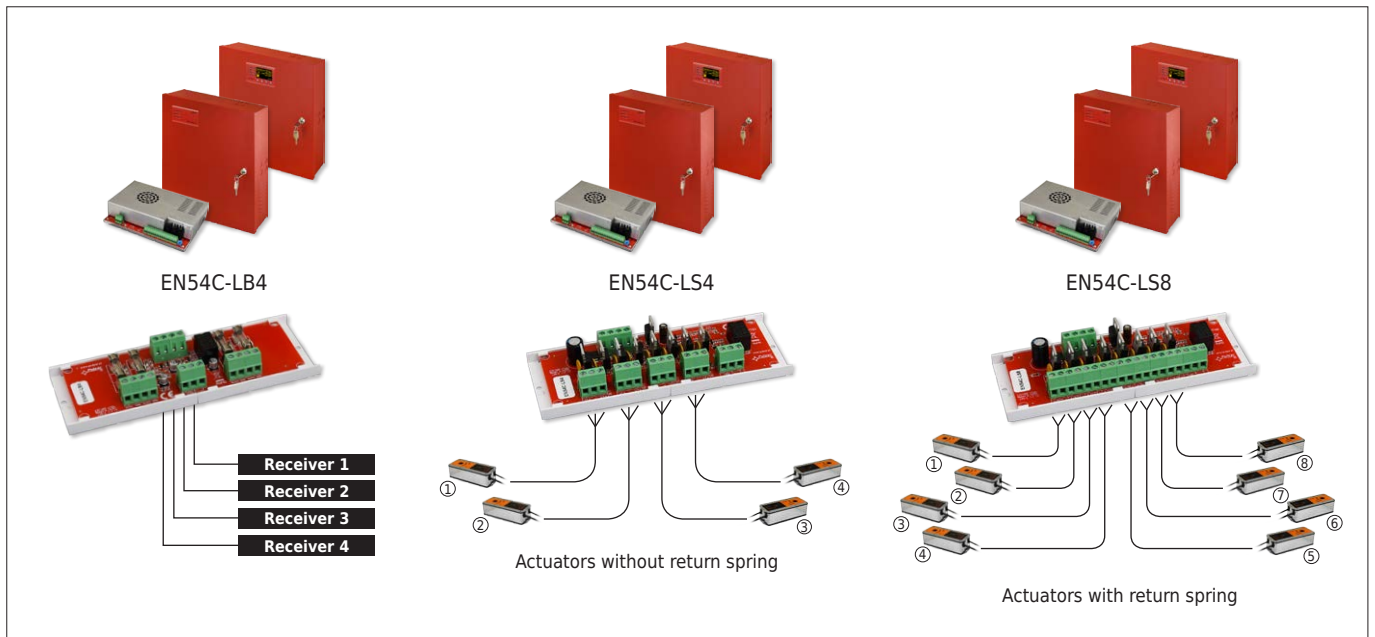
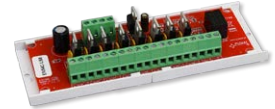
EN54C-LS4

sequential module for actuators with return spring



EN54C-LS8

sequential module for actuators without return spring



EN54C-BR

Brackets for EN54C



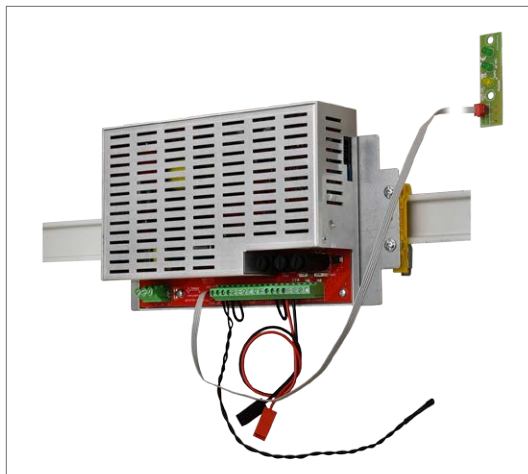
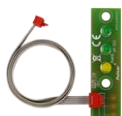
EN54M-DIN1

Bracket DIN/EN54M 1



EN54M-LED

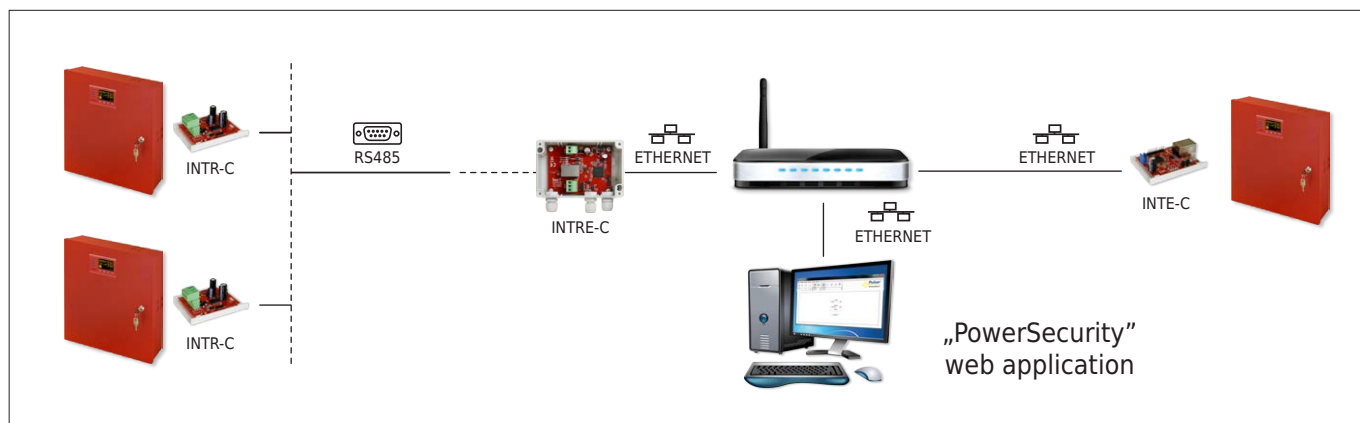
Set for optical indication EN54M



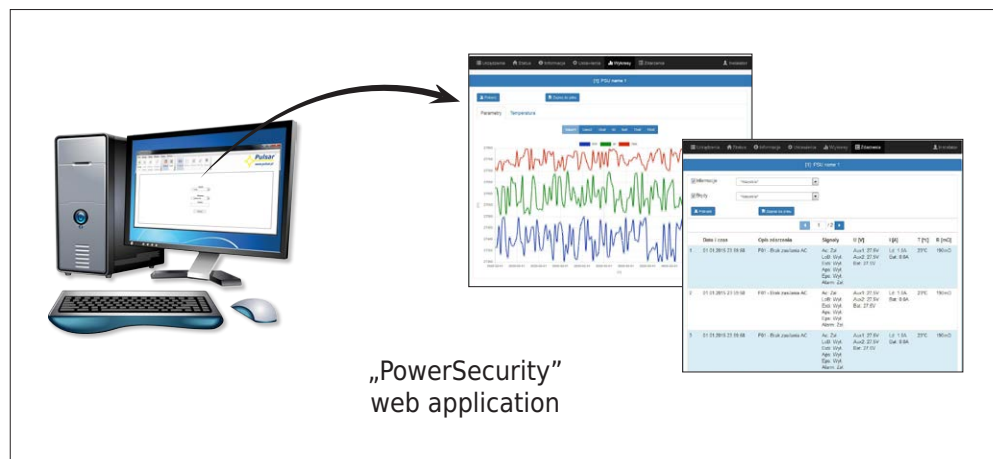
Accessories for power supply units EN54C and EN54M series Interfaces, „PowerSecurity” web application

Applies EN54C-...LCD

<p>INTE-C Interface ETHERNET EN54C-LCD</p> 	<p>INTR-C Interface RS485-TTL EN54C-LCD</p> 	<p>INTRE-C Interface RS485-ETHERNET</p> 
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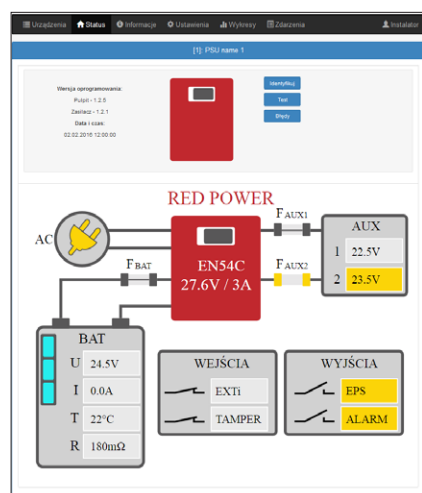
„PowerSecurity” web application for power supplies of EN54C-...LCD



„PowerSecurity” web application

Data i czas	Opis zdarzenia	Wzrost	Wzrost	Wzrost	Wzrost	Wzrost
21.02.2015 23:03:08	PSU - Błąd zasilania AC	AC_V	Avg 27.6V	12.15%	20%	19000
		AC_I	Avg 0.0A	0.00%	0%	0
		AC_T	Avg 22.2°C	0.00%	0%	0
		AC_R	Avg 180mΩ	0.00%	0%	0
21.02.2015 23:03:08	PSU - Błąd zasilania AC	AC_V	Avg 27.6V	12.15%	20%	19000
		AC_I	Avg 0.0A	0.00%	0%	0
		AC_T	Avg 22.2°C	0.00%	0%	0
		AC_R	Avg 180mΩ	0.00%	0%	0
21.02.2015 23:03:08	PSU - Błąd zasilania AC	AC_V	Avg 27.6V	12.15%	20%	19000
		AC_I	Avg 0.0A	0.00%	0%	0
		AC_T	Avg 22.2°C	0.00%	0%	0
		AC_R	Avg 180mΩ	0.00%	0%	0

Remote desktop window of PSU



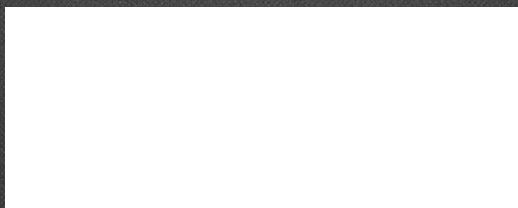
RED POWER

EN54C
27.6V / 3A

WEJŚCIA: EXT1, TAMPER
WYJŚCIA: EPS, ALARM

BAT: U 24.5V, I 0.0A, T 22°C, R 180mΩ

AUX: 1 22.5V, 2 23.5V



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