

EDS-500

500W DC OUTPUT UPS

GENERAL FEATURES:

Battery cut off when battery low 3 state battery charging Configurable maximum current charging level

Step mains to battery without voltage dips

Battery not included

Battery temperature sensor input (Optional sensor)

Battery low alarm

Battery test

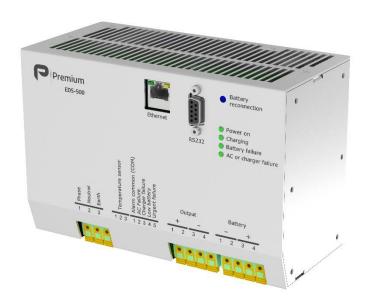
Mains failure alarm

UPS failure alarm

Advanced configuration via RS232

Ethernet or CAN Bus connection (optional)

Redundance ORing diode (optional)







MODELS	Input voltage range	Nominal output voltage	Maximum output power	Maximum output current	Maximum Output peak current from battery
EDS-500-5243	90 264Vac	12V	500W	36.7A	50A 30s
EDS-500-5247	90 264Vac	24V	500W	18.4A	30A 30s
EDS-500-5249*	90 264Vac	48V	500W	9.19A	15A 30s
EDS-500-5251*	90 264Vac	110V	500W	4.02A	6.5A 30s

^{*}References subject to special MOQs and lead times



INPUT	
Input voltage	Universal (100 240Vac)
Input voltage range	90 264Vac
Mains frequency range	47 63Hz
Inrush current	<30A
Power factor	0.98 at full load
Efficiency	See table
DUTPUT	
Output voltage range	-0, +20%Von
Line regulation	<0,2%
Maximum ripple	See table
Maximum load capacitance	See table
BATTERY	
Battery charging method	Bulk / absorption / float
Maximum charging current	Configurable range depends on model (see table on page 1)
Maximum charging current tolerance	10%
Battery temperature compensation	2.5mV/K/cell
Battery test	By capacity measurement discharging over the load
ENVIRONMENTAL	2, supusity measurement districtlying over the load
	25 9000
Storage temperature	-25 80°C
Operating temperature	-25 55°C (Po = nom) -25 70°C (Po = 62.5% nom)
Maximum Relative humidity	95% with no condensation
Cooling	Natural convection
MTBF	350.000h @ 40°C according to IEC61709
	330.00011 @ 40°C according to 1EC01709
EMC	
Emission	EN61000-6-4
Immunity	EN61000-6-2
SAFETY	
Safety	IEC62368-1
Dielectric strength Input / Output, Signals	3000Vac 50Hz 1 min.
Dielectric strength Earth / Input	1500Vac 50Hz 1 min.
Dielectric strength Output / Earth, Signals	500Vac 50Hz 1 min.
MECHANICAL	
Size	186.5 x 87 x 124.4 mm
Veight	1490 gr.
CONTROL	
Battery reconnection button	For starting up without mains presence
LEDs	Power on (Green) Charging (Ambar) Battery Failure (Red): • Led on: Battery test failed • Slow blink: Battery not present • Fast blink: Battery temperature sensor not present AC or charger failure (Red): • Led on: Vout out of range • Slow blink: AC input out of range
Mains failure alarm	Mains out of range. Closed contact when alarm
Battery low alarm	Battery discharged. Closed contact when alarm
,	Maintenance required. Closed contact when alarm. Alarm cases:
Jrgent failure alarm	 Battery not present Battery test failed Charger malfunction Charger temperature out of range
UPS failure alarm	Vout out of range. Closed contact when alarm.
Alarms spec:	<u> </u>
Туре	Solid state relay
Maximum switching voltage	60 V
Maximum switching current	0.2A



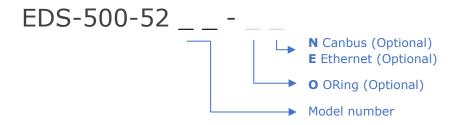
PROTECTIONS	
Against overloads and short-circuits	Current limiting
Battery protection against deep discharges	Battery cut off
Battery protection against overloads	Current limiting and fuse
Against Input over-currents	Fuse

ORDERING CODES

	Output / Battery				Maximum Output current			Maximum charging current selection					
Part Number	Nom	Float	Const	Cut off	Max Ripple	Max Cap	Cont.	1 min	From Battery	Effic	Min	Nom	Max
	[V]	[V] *	[V] *	[V] *	[mV]	[mF]	[A]	[A]	[A]	[%]	[A]	[A] *	[A]
EDS-500-5243	12	13.6	14.5	10.5	100	15	36.7	36.7	50 (30s)	90	2.5	16	20
EDS-500-5247	24V	27.1	29.0	21	100	15	18.4	20	30 (30s) 32 (1s)	92	1.25	8.0	10
EDS-500-5249	48V	54.2	58.0	42	150	15	9.19	10	15 (30s) 16 (1s)	93	0.63	4.0	5.0
EDS-500-5251	110V	124.2	132.9	96.2	300	3.3	4.02	4.5	6.5 (30s) 7 (1s)	93	0.3	1.75	2.2

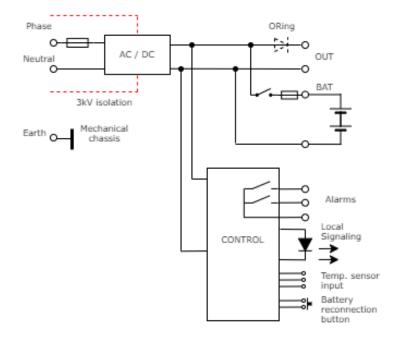
^{*} Default factory settings

⁽¹⁾ References subject to special MOQs and lead times



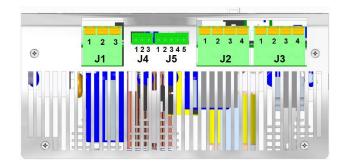
Accessories must be ordered in a separated order line

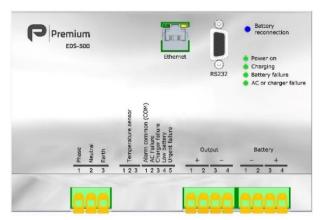
BLOCK DIAGRAM





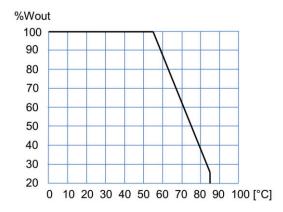
CONNECTIONS





J1-1	Mains Line		
J1-2	Mains Neutral		
J1-3	Protective EARTH	Cabla ana a a atian	
J2-1, 2	+ Vout	Cable cross section	
J2-3, 4	- Vout	0,75 6 mm ²	
J3-1, 2	-VBat		
J3-3, 4	+ VBat		
J4-1	Temp sensor +5V	Tomporature concer	
J4-2	Temp sensor	Temperature sensor not included	
J4-3	Temp sensor GND	not included	
J5-1	Com alarms	Mating connectors	
J5-2	Mains alarm	Mating connector: Phoenix Contact	
J5-3	UPS alarm	MC 1,5/ 5-ST-3,81	
J5-4	Low Bat.alarm	(not included)	
J5-5	Urgent failure	(not included)	

POWER DERATING VS TEMPERATURE



DESCRIPTION

This series consists of three models of a power supplycharger which, in the presence of mains voltage, supplies regulated voltage, while at the same time charging the battery in a controlled way. The range is ideal for charging lead-acid batteries of 12V, 24V, and 48V with capacities of up to 96Ah, 48Ah, and 24Ah respectively.

The device comprises a switched-mode power supply and a three steps battery charger circuitry. It also incorporates an alarm circuitry which acts independently, when a mains, UPS or battery condition occurs. The alarm outputs are the switched, potential-free contacts of relays.

Mains operation

When the mains supply is on, the output current is obtained directly from the power supply. The maximum battery charging current can be selected by the user through RS-232 connection. The maximum battery charging current will be equal to the set current or equal to the rated current less the output current; the floating voltage will be equal to the output voltage.

The system allows the temporary supply of an output current higher than the rated current. The average of this additional current, which is obtained from the battery, should not exceed the charging current as, otherwise, the battery would finally discharge.

If the power supply has no output, due to a mains voltage outage or to a failure in the power supply, the supply failure alarm will be triggered.

Operation without mains supply

When there is no mains supply, the battery comes, uninterruptedly, into operation and the output current is obtained from the battery. The output voltage will then depend on the battery discharge curve.

If the battery runs flat, the low battery alarm will be triggered. It will be disconnected from the output by way of a relay to prevent a deep discharge of the battery. When the mains supply returns, the UPS may take several minutes to supply the established battery charging current. During this time, the battery is charged with a small current until the low battery status is overcome. At that moment, the low battery alarm is reset, the relay closes, and the battery starts to charge normally.

Battery temperature sensor

An optional temperature sensor attached to the battery can be connected to the equipment. If it is used, charging and floating battery voltages are compensated according to battery temperature.

INSTALLATION

Make the connections according to the table figure

If the battery charging current required is different from the factory set, this can be changed through RS-232 connection $\frac{1}{2}$

For safety reasons it is required:

To incorporate an easily accessible means of disconnecting from the mains supply.

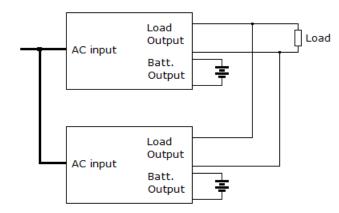
Upon replacing the mains fuse, make sure one of the same rating is used and with the power supply disconnected from the mains.

To provide the equipment with a protective enclosure, in compliance with the Electrical Safety Regulations and Directives in the country where it is installed.

To use a mains connection cable with a cross section of at least $0.75 \, \text{mm}^2$.



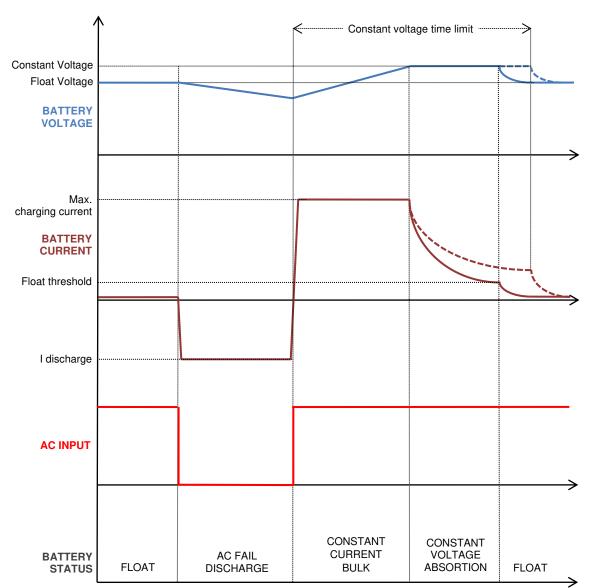
ORing FEATURE



The optional ORing feature enables the parallel connection of several power supply-chargers. In this manner, the load current is shared among the units and redundancy is introduced in the power system for high reliability.

The implemented ORing is an active one, based on FET transistor, and thus minimizing power loss in this circuit.

CHARGING CHARACTERISTIC





CANopen Communication Protocol

The optional CAN Module enables CANopen application protocol.

CAN Data Frame

Can protocol uses frames to send and receive data between the device and other nodes on the CAN Bus. The structure of the CAN frame is the following one:

SoF	COB-ID	RTR	Control Field	Data	CRC	ACK	EoF
1 bit	11 bits	1 bit	6 bits	0-8 bytes	16 bits	2 bits	7 bits

LSS Service

Layer Setting Service. It offers the possibility to inquire and change the settings of certain parameters of the local layers on a CANopen module via CAN Network. The parameters that can be read and/or written by using LSS service are:

- Node-ID of the CANopen Slave.
- Bit timing parameters of the physical layer (baud rate).
- · LSS address.

By default, CANopen devices start without CANopen Node-ID (0xFF) and baudrate of 250 kbit. Node ID must be set in order to communicate with the device.

NMT Service

The Network Management is used to control the Nodes inside the network and its behaviour. This service uses a master/slave relationship where the master controls the states of the slaves.

SDO Service

Service Data Object is used to have access to all the data defined in the Object Dictionary. SDO service allows the transmition and reception of objects of any size using a client/server communication. If SDO is not able to send all the data in one frame, it will segment it and send the data using multiframe format.

Object Dictionary

The Object dictionary shows all the accesible data and the application and communication parameters inside the device. The dictionary sorts the data using and indexes and subindexes, which will be used by the CANopen protocol to map all the data.

Use cases:

LSS Service: Change Node ID

Tx/ Rx	CAN Id	DLC	Message	Notes
Tx	7E5	8	04 01 00 00 00 00 00 00	Set nodes to configuration mode
Tx	7E5	8	11 XX 00 00 00 00 00 00	Set node ID to XX
Rx	7E4	8	11 00 00 00 00 00 00	If==00, node changed correctly
Tx	7E5	8	04 01 00 00 00 00 00 00	Set nodes to operation mode

SDO Service: (Node ID = 0x01)

Tx/ Rx	CAN Id	DLC	Message	Notes
Tx	601	8	40 04 60 01 00 00 00 00	Read Index 6004, subindex 01
Rx	581	8	43 04 60 01 0F D4 00 00	Return value 00 00 D4 0F = 54287 mV
Tx	601	8	2F 03 60 00 04 00 00 00	Write index 6003 subindex 00 to 4
Rx	581	8	60 03 60 00 00 00 00 00	Write OK

Object Dictionary:

Idx Sub Type RW Notes 6001 00 INT32 ro Output Power 6002 00 INT32 ro Output Type 6003 00 IUINT3 rw Maximum Output voltage in mV 6004 02 UINT32 rw Maximum Output voltage in mV 6004 03 JUINT32 rw Maximum Output voltage in mV 6005 01 INT32 rw Maximum battery temperature in m°C. 6005 02 INT32 rw Maximum battery temperature in m°C. 6006 00 UINT13 rw Output voltage in quick charge state in mV 6007 00 UINT32 rw Output voltage in quick charge state in mV 6008 00 UINT32 rw Disconnection voltage lower bound in mV 6009 01 UINT16 rw Maximum time of quick charge state in hours 6000 00 UINT16 rw Maximum number of power up retries 6000 00 UINT1	Obje	t Di	ctionar	у:	
6002 0.0 INT32 ro Main Forward Power 6003 0.0 UINT32 rw Output Type 6004 0.1 UINT32 rw Maximum Output voltage in mV 6004 0.2 UINT32 rw Nominal output voltage in mV 6004 0.3 UINT32 rw Maximum battery temperature in m°C. 6005 0.1 INT32 rw Maximum battery temperature in m°C. 6006 0.0 UINT32 rw Mulimum battery temperature in m°C. 6007 0.0 UINT32 rw Output voltage in floating state in mV 6008 0.0 UINT32 rw Output voltage in floating state in mV 6009 0.1 UINT32 rw Disconnection voltage lower bound in mV 6009 0.1 UINT32 rw Disconnection voltage lower bound in mV 6000 0.1 UINT16 rw Maximum time of quick charge state in hours 6008 0.0 UINT16 rw Maximum time of quick charge state in hours	Idx	Sub	Туре	RW	Notes
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600B 00 INT16 rw Maximum charging current in mA 600C 00 UINT16 rw Maximum number of power up retries 600D 00 UINT16 rw Time between power up retries in minutes 600E 00 UINT16 rw Maximum number of gower up retries 600F 00 UINT16 rw Minutes for disconnection of the battery when AC is not available 600F 00 UINT16 rw Minutes of times a battery can be above maximum output voltage 6010 00 UINT16 rw Time in seconds to disconnect the battery when above the maximum output voltage 6011 00 UINT16 rw Time in seconds to clear a battery overvoltage alarm 6012 00 UINT16 rw Time in seconds to clear a battery overvoltage alarm 6013 00 UINT16 rw Time in seconds for the end of autonomy alarm to trigger 6014 00 UINT3 rw Dattery is over maximum voltage 6015 00 UINT32 rw Limit voltage to consider a battery test failed in my 6016 00 UINT32 rw Limit voltage to consider a battery test failed in my 6017 00 UINT16 rw Assimum time of an attempt of battery test 6018 00 UINT16 rw Maximum time of an attempt of battery test 6019 00 UINT16 rw Maximum time of an attempt of battery test 6010 00 UINT16 rw Minumer of retries of battery test in minutes 6010 00 UINT16 rw Maximum time in minutes in recovering battery 6010 00 UINT16 rw Maximum time in minutes in recovering battery 6011 00 UINT16 rw Maximum time in minutes in recovering battery 6012 00 UINT16 rw Maximum time to consider battery charged from floating state in hours 6016 00 UINT16 rw Maximum time to apply temperature 6017 00 UINT16 rw Maximum time to apply temperature 6018 00 UINT16 rw Maximum time to apply temperature 6019 00 UINT16 rw Maximum time to apply temperature 6020 00 UINT16 rw Maximum time for in minutes in recovering battery 6021 00 UINT16 rw Temperature compensation in floating state in my/oc 6022 00 UINT16 rw North for the part of the floating state in hours 6024 00 UINT16 rw Temperature compensation in floating state in my/oc 6020 00 UINT16 rw North for the part of the AC/DC converter in mA 6020 00 UINT12 ro Current out of the AC/DC converter in mA 6020 00 INT32 ro Current	6009	02	UINT32	rw	Disconnection voltage upper bound in mV
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	602E	00	INT32	ro	-
	602F	00	UINT8	ro	,



RS-232

The equipment can be locally configured through RS-232 connection. The configuration for the RS232 communication channel is the following:

Baud rate: 115200
Parity: None
Bits: 8
Stop bits: 1
Flow control: none

Available commands: Generic commands:

Command	Туре	Description
id	String	Get the ID of the product family
version	String	Get the version of the firmware

Measurement commands:

Command	Туре	Description
i_converter	Float	Current out of the AC/DC converter in mA
i_bat_charge	Float	Current sensed charging the battery in mA
v_out	Float	Output voltage in mV
temp_int	Float	Internal temperature in moC
temp_bat	Float or String	Temperature sensed in the battery current probe in moC. If not present, it will return "NOT CONNECTED"
v_bat	Float	Battery voltage in mV
i_bat_discharge	Float	Current sensed discharging the battery in mA.
i_bat	Float	Overall battery current in mA. Positive values correspond to charging and negatives to discharging.

Configurable parameters:

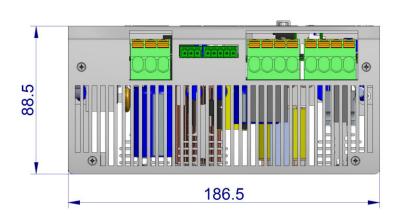
The device has configurable parameters whose value can be read or written. To read a value, prepend "get" at the beginning; to write a value, prepend "set" at the beginning and append the desired value at the end.

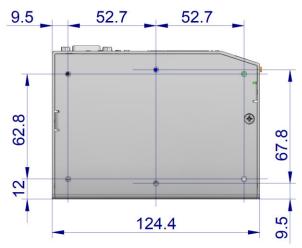
Command	Description
v_flot	Output voltage in floating state in mV.
v_carga	Output voltage in quick charge state in mV.
v_fin	Limit voltage to consider a battery test failed in mV.
cap_desc	Capacity discharged in a battery test to finish it in mAh.
desc_v_max	Disconnection voltage upper bound in mV.
desc_v_min	Disconnection voltage lower bound in mV.
desc_inm	Immediate disconnection voltage in mV.
vout_nom	Nominal output voltage in mV.
vout_max	Maximum output voltage in mV.
vout_min	Minimum output voltage in mV.

Configurable parameters (continues):

Command	Description
ilim	Maximum charging current in mA.
comp_flot	Temperature compensation in floating state in mV/°C
comp_carga	Temperature compensation in quick charge state in mV/°C
i_flot	Battery current for transition to floating from quick charge in mA.
comp_t_max	Maximum temperature to apply temperature compensation in doC
comp_t_min	Minimum temperature to apply temperature compensation in doC
t_min_flot	Minimum time to consider battery charged from floating state in hours.
t_lim_carga	Maximum time of quick charge state in hours.
periodo	Period of the battery test in weeks.
tlim_prueba	Maximum time of an attempt of battery test.
rein	Number of retries of battery test.
t_rein	Retry time of a failed battery test in minutes.
tbat_alta	Maximum battery temperature in moC.
tbat_baja	Minimum battery temperature in m°C.
hab_comp	Enable compensation.
bat_presence	Battery presence.
time_between _overload_retries	Time between test to overcome overload state in seconds.
RCVcte_TempPasoFlot	Time in ms that conditions have to be met constantly to change from quick charge to floating state.
PrbBat_TTensLim	Time in seconds in a battery test that voltage must be below v_fin to consider the attempt failed.
TFinAutDesc	Time in minutes for disconnection of the battery when AC is not available.
TempAlarmFinAut	Time in seconds for the end of autonomy alarm to trigger.
PowerUP_TempReint	Time between power up retries in minutes.
PowerUP_NumReint	Maximum number of power up retries.
TAlarmOnBatTensMax	Time in seconds to disconnect the battery when above the maximum output voltage.
TAlarmOffBatTensMax	Time in seconds to clear a battery overvoltage alarm.
NumReint _BatTensMax	Number of times a battery can be above maximum output voltage.
TempEspFin _BatTensMax	Timeout in minutes to clear the number of times a battery is over maximum voltage.
number_of _overload_retries	Number of overloads allowed.
maximum_recovering _battery_time	Maximum time in minutes in recovering battery state.







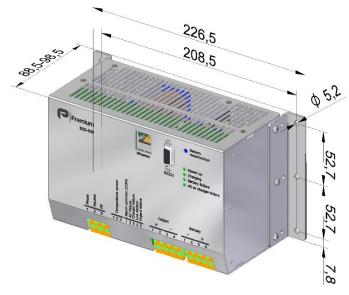
ACCESSORIES

Descritpion	CODE
DIN rail clip set	NP-9441
Mounting brackets set	NP-9442
Temperature sensor (cable 2m)	NP-9433

NP-9441



NP-9442



NP-9433



The sensor may increase the battery life, specially when it suffers relevant periodes of time with ambient temperatures $>35^{\circ}\text{C}$ or $<15^{\circ}\text{C}$

The sensor must be installed in the battery housing It has a mounting hole of diameter 5mm



C € UK EU, UKCA DECLARATION OF CONFORMITY

The undersigned, representing the following:

Manufacturer: PREMIUM, S. A.,

Address: C/ DolorsAleu 19-21, 08908 L'Hospitalet de Llobregat, SPAIN

herewith declares that the product:

Type: DC UPS

Models: **EDS-500-5243... 5249**

is in conformity with the provisions of the following EU directive(s):

2014/35/EU

SI 2016 No 1101 Low voltage / The electrical equipment (safety) regulations

2014/30/EU

SI 2016 No 1091 EMC / Electromagnetic compatibility regulations

2015/863/EU RoHS / Restriction of the use of certain hazardous substances in electrical and

SI 2012 No. 3032 electronic equipment

and that standards and/or technical specifications referenced overleaf have been applied:

EN 60950-1: 2005 Safety. Information technology equipment

EN 62368-1: 2014 Safety. Audio/video, information and communication technology equipment

EN 61000-6-4: 2019 Generic emission standard EN 61000-6-2: 2019 Generic immunity standard

CE marking year: 2020; UKCA marking year: 2021

Notes:

For the fulfilment of this declaration the product must be used only for the aim that has been conceived, considering the limitations established in the instructions manual or datasheet.

L'Hospitalet de Llobregat, 31-05-2021

Miguel Angel Fernandez Chief Research & Development Officer

PREMIUM S.A. is an ISO9001and ISO14001 certified company by **Bureau Veritas**