

ODX-6000

6000VA DC/AC INVERTER

GENERAL FEATURES:

Sine wave output voltage
Suitable for motors control
Adjustable output frequency
Adjustable output voltage
High input-output isolation 3000Vrms
Remote off opto-coupled
Alarm by isolated relay contacts
Configurable input: Reverse or Mid power
Remote control via RS232

CAN BUS (optional)

Parallelable output (optional)

Railway version EN50155 (optional) Fire and smoke: EN45545-2 approved













	24Vdc	48Vdc	72Vdc	110Vdc
	16.8 30V	33.6 60V	50.4 90V	77 138V
400 Vac	ODX-6000-7502	ODX-6000-7505	ODX-6000-7506	ODX-6000-7507
	3500 W	6000 W	6000 W	6000 W



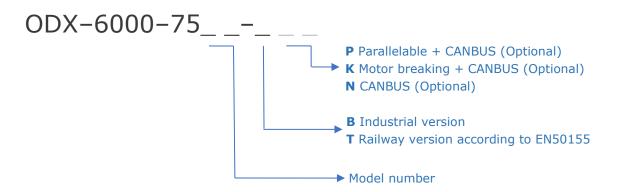
INPUT	
Input voltage range	-30, +25% Vin nom
Maximum input ripple	5% Vin nom (Vrms, 100Hz)
OUTPUT	
Nominal output voltage (Von)	See table
Output voltage range	20100% of Von (adjust via remote control)
Output frequency	50 / 60Hz via DIP-switch, 575Hz via RS-232
Load regulation	< 4.5%
Line regulation	< 2% Vin -25% +25% < 10% Vin -30% +30%
	< 20 % Vin -40 % +40 % (100ms)
Output wave distortion THD	< 2% (average of 16 samples)
Output HF ripple	< 2.5%
ENVIRONMENTAL	
Storage temperature	-40 80 °C
Operating temperature: Full load Operating temperature: 62.5 % load	-40 55 °C (EN50155 OT2) -40 70 °C (EN50155 OT4)
Relative humidity without condensation	5 95%
Maximum altitude	2000m at full load, 2500m at 95% of load
Cooling	Internal controlled internal fan
Shock and Vibrations according to	EN61373:2011 Category 1 Class B body mounted
MTBF (MIL-HDBK-217-E; Gb, 25°C)	100.000 h
EMC	
Immunity according	EN61000-6-2, EN50121-3-2
Emissions according	EN61000-6-4, EN50121-3-2
SAFETY	
Dielectric strength: Input /output	3000Vrms / 50Hz / 1min
Dielectric strength: Output / Earth	1500Vrms / 50Hz / 1min
Dielectric strength: Input / Earth	500Vrms / 50Hz / 1min
Safety according to	EN60950-1, EN62368-1
Fire and smoke	EN45545-2 approved (only for options T and L , railway versions)
MECHANICAL	
Weight	< 8950 g
Protection degree	IP20
PROTECTIONS	
Against overloads	Current and I ² T limited (see overload protection curve)
Against over-temperature	Shutdown with auto-recovery
CONTROL	
Output OK LED	Green
Input OK LED	Green
Alarm LED	Red
Input alarm	Open when alarm. Maximum rating: 0.16A at 160Vdc
Output alarm	Open when alarm. Maximum rating: 0.16A at 160Vdc
Remote OFF input	Off applying 15143 Vdc (acc. to EN50155), Impedance >35k Ω
Configurable input (reverse or mid-power)	ON: applying 15143 Vdc (acc. to EN50155), Impedance >35k Ω

Note-1: Is not recommended to handle connectors below -25°C



ORDERING CODES

	Input	Input	Max.	Output	Output	Active	Appar.	Output peak current		Efficien.	No load
Model	voltage DC	voltage range	Input	voltage AC	current	output	output	5s (rms)	(lopk) 10ms		input
	[V]	[V]	[A]	[V]	[A]	[W]	[VA]	[A]	[A]	[%]	[A]
ODX-6000-7502	24	16.8 - 30	232	400	6.50	3500	4500	7.8A	20	91.0	1.70
ODX-6000-7505	48	33.6 - 60	191	400	8.66	6000	6000	11.5	20	93.6	0.85
ODX-6000-7506	72	50.4 - 90	127	400	8.66	6000	6000	11.5	20	94.3	0.58
ODX-6000-7507	110	77 - 138	83	400	8.66	6000	6000	11.5	20	94.2	0.38



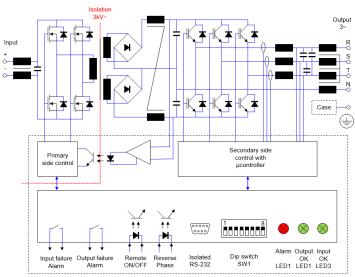
Option P (Parallelable) includes CANBUS port.

Option K (Motor breaking) allows a motor to slow down faster. It includes internal resistors to dissipate energy from the motor; up to 1200Wkp and 800W for 5s. This option includes CANBUS port.

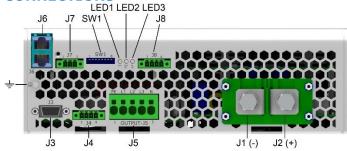
Please check availability for P, K or N options Accessories must be ordered in a separate order line.



BLOCKS DIAGRAM

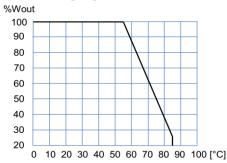


CONNECTIONS



J1	-Vin	Terminal M8
J2	+Vin	Terrinia Mo
J5 - 1	Protective Earth	
J5 - 2	Output R	
J5 - 3	Output S	Cables 2.5 4mm ²
J5 - 4	Output T	
J5 - 5	Output Neutral	
J4 - 1	+ Configurable input	
J4 - 2	- Configurable input	Phoenix Contact MC1 E/4 CE 3 91
J4 - 3	+ Remote	Phoenix Contact MC1.5/4-GF-3.81 Recommended female:
J4 - 4	- Remote	Phoenix Contact MC1.5/4-STF-3.81
J8 - 1, 2	Output alarm	Filoenix Contact MC1.5/4-511-5.01
J8 - 3, 4	Input alarm	
J7 - 1	CAN L (optional Can bus)	Phoenix Contact MC1.5/3-GF-3.81
J7 - 2	CAN H (optional Can bus)	Recommended female:
J7 - 3	GND CAN	Phoenix Contac MC1.5/3-STF-3.81
J3 - 2	RS-232 Rx	
J3 - 3	RS-232 Tx	Female D-Sub DB9
J3 - 5	RS-232 GND	Telliale D-3ub DD9
J3 rest	Not connected	
J6A - J6B	Optional Parallel operation	RJ45
SW1 - 1	Master / Slave	ON (down): Slave
SW1 - 2	Parallel / Stand alone	ON (down): Stand alone
SW1 - 6	Local / Remote	ON (down): Remote
SW1 - 7	50Hz / 60Hz	ON (down): 60Hz
SW1 rest	Not used	

POWER DERATING vs AMBIENT TEMP.



DESCRIPTION

The ODX-6000 consists of three phase sine-wave DC-AC inverters with galvanic isolation between input and output.

- Changing the output frequency by means of DIP-switch-7 of SW1. OFF: 50Hz or default programmed, ON: 60Hz
- Change local/remote (waiting RS-232 commands) by means of DIP-switch-6 of SW1, OFF: local, ON: remote
- Shutdown applying voltage output 15 to 143V on pins 3 and 4 of 14
- Start-up motors by means of a soft start. In the start-up, the output voltage rises linearly from 0V to set voltage and the frequency from the initial to the set one. The startup ramp slope may be changed via RS-232
- Set the rotation speed of a motor according to the appropriate Voltage/Frequency ratio.
- Configurable input (pin 1 and 2 of J4):
 - Reverse mode: Changing the rotation direction for the next start-up of a motor by applying voltage between 15 and 143V.
 - Mid power mode: Changing the output frequency in V/F mode from nominal to a mid-power frequency by applying voltage between 15 and 143V.
- Monitoring the status of the input and output voltage through the contacts of two separate solid state relays.
- Set and monitor parameters via RS-232.

The ODX-6000 is equipped with a maximum average power protection as well as maximum output peak current protection. This protects the semiconductors even when an output short-circuit occurs. It also features a disable function for input under-voltage, which allows protecting the batteries from harmful discharges.

START-UP

- The unit has 6 threaded holes for the fixation on a mounting surface.
- The unit has internal fans. For an appropriate cooling, the air input and output should be free of elements that cause and an air flow reduction (minimum recommended distance to other objects 90mm).
- Make connections as shown in the figure.
- The default output frequency is 50Hz. For 60Hz simply actuate the dip-switch as indicated in the figure.

For safety reasons, the following requirements must be met:

- Provide the equipment with some kind of protective enclosure that complies with the electrical safety directives in effect within the country where the equipment is installed.
- Include an input fuse with a rating immediately higher than the maximum input current.
- Use cables of adequate cross-section to connect inputs and outputs. The following table lists the maximum currents and the minimum cross-sections for the cables used for each power connection.

	Input	Input	Input	Input	Output
	24V	48V	72V	110V	400V
Maximum current	232 A	191 A	127A	83A	8.7A
Cable cross-section	150	95	50	25	2.5
	mm ²	mm²	mm²	mm²	mm ²

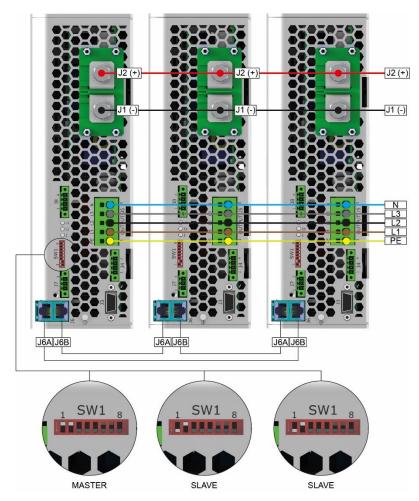
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The models 75xxTPN are designed to work in parallel with one unit set as a MASTER and the rest as SLAVES.

For this mode of operation, it is necessary to connect the MASTER/SLAVE port with a cable RJ45 FTP cat 6 (or higher) from J6B of the first unit to J6A of the following, and the last unit J6B to J6A of the first unit in a ring connection.

In addition, it is necessary to interconnect the output port respecting the phase order, as shown in the diagram:



Example for 3 units working in parallel mode

STAND ALONE OPERATION

The models 75xxT**P**N, can operate stand alone with no connections, setting the dip-switch SW1-1 OFF (MASTER), and SW1-2 ON (Alone) as the diagram show:





RS232 communication port

It is possible to control and monitor de unit via RS232 by means a terminal emulator like "Tera Term" or "Putty". Also it is possible to control and monitor de unit directly using the protocol showed in table:

Protocol configuration: ASCII code, 57600 bauds, parity none, 8 bits, 1bit stop

Hea	der	Function	Parai	meter	Returns	Explanation				
			V PTV===.=			Input voltage in Volts				
				v	PTv∎≡∎.≡	Input voltage ripple in Volts				
			•	Y	PTYRN===== [13]YSN===== [13]YTN=====	Output voltage in Volts RMS Phase-Neutral ([13] = char 13 of ASCII code)				
				I	PTIR===.==[13]IS===.== [13]IT===.==	Output current in Amps RMS ([13] = char 13 of ASCII code)				
			-	Т	PTT===.=	Internal temperature1 in K				
			1	t	PTt∎≡∎.≡	Internal temperature 2 in K				
				F	PTF===.=	Nominal output frequency in Hz				
		L	1	f	PTf∎≡∎.≡	Actual output frequency in Hz				
				y	PTy∎∎∎.∎	Actual output voltage set-point in V				
			s		PTS===.=	Inverter state 999.9 → Enabled 000.0 → Disabled 222.2 → Blocked by overload 111.1 → Blocked by overload or shortcircuit				
			N	М	PTM===	Model number				
			F	R	PTR∎∎■	Firmware version				
			Ot	her	PTE	Command not supported				
			1	===.=	OK / ERR	Set the low input voltage timed shutdown in V				
			2	===.=	OK / ERR	Set the minimum alarm input voltage in V				
			3		OK / ERR	Change the status bit (after start up enabled with SW1:6 =LOCAL and disabled with SW1:6 =REMOTE) 999.9 → Inverter enabled 000.0 → Inverter disabled				
	P R		4	===.=	OK / ERR	Set the output voltage Phase-neutral in Vrms (Vo)(output must be stopped) 040.0≤ ■■■.■ ≤ 230.0				
Р			5	===.=	OK / ERR	Set the maximum output current in Arms 20% I _{nom} ≤ ■■■.■ ≤ 100% I _{nom}				
			6	===.=	OK / ERR	Set the nominal output frequency in Hz (Fo) (output must be stopped) 005.0 ≤ ■■■.■ ≤ 075.0				
		G	7	===.=	OK / ERR	Set the alarm maximum output current 0 < ■■■.■ ≤ 100% I _{max_warning}				
			8	===.=	OK / ERR	111.1 → Reset the inverter				
			L	===.=	OK / ERR	Set the minimum input starting voltage in Volts				
			0	===.=	OK / ERR	Set the initial frequency in the startup (Fi) 005.0 ≤ ■■■.■ ≤ 075.0				
			Р	===.=	OK / ERR	Set the ramp-up in increment of "N" cycles per Hz in mode V/F, frequency changes or start-up (Note-1) 001.0 ≤ ■■■.■ ≤ 100.0				
			Q	===.=	OK / ERR	Set the ramp-down in decrement of "N" cycles per Hz in mode V/F (Note-1) 002.0 ≤ ■■■.■ ≤ 100.0				
			Y	===.=	OK / ERR	Change the working mode of the input J4-1,J4-2 111.1 → Input as reverse phase control (default) 222.2 → Input as mid-power control (Note-2)				
			X		OK / ERR	Set the mid-power frequency for V/F mode by the use of input J4-1,J4-2 005.0 ≤ ■■■.■ ≤ 75.0				
			1	===.=	OK / ERR	Set a new output frequency in Hz (output must be run and not stored in memory) 005.0 ≤ ■■■.■ ≤ 075.0				
			2	===.=	OK / ERR	Set a new output voltage in Volts (output must be run and not stored in memory) 040.0 ≤ ■■■.■ ≤ 230.0				
		М	3		OK / ERR	Set a new output frequency in Hz in mode V/F (output must be run and not stored in memory) $005.0 \le \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \le 075.0$				
			4		OK / ERR	Changes the output phase order (output must be run and not stored in memory) 111.1 → Phase RST (direct phase) 222.2 → Phase SRT (reverse phase)				



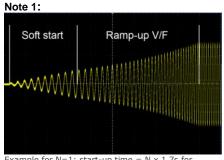
CAN communication port (optional)

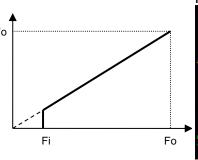
It is possible to control and monitor the unit using the CAN connection with the CANOpen protocol. It is provided an .eds file with all the objects available.

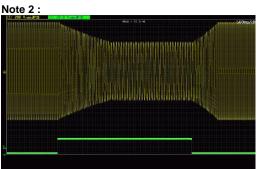
Protocol configuration: 500kbit/s, NODE ID: 1. The most relevant objects can be found in the following table:

Index	Subindex	Name	Type	Attribute	Explanation
0x6001	0x00	Input voltage	UINT32	ro	Input voltage in tenths of Volt
0x6002	0x00	Input Ripple Voltage	UINT32	ro	Input voltage ripple in tenths of Volt
0x6003	0x01	Vrn	UINT32	ro	Output voltage in Volts Phase R-Neutral
0x6003	0x02	Vsn	UINT32	ro	Output voltage in Volts Phase S-Neutral
0x6003	0x03	Vtn	UINT32	ro	Output voltage in Volts Phase T-Neutral
0x6004	0x01	IR	UINT32	ro	Output current in hundredths of Amp Phase R
0x6004	0x02	IS	UINT32	ro	Output current in hundredths of Amp Phase S
0x6004	0x03	IT	UINT32	ro	Output current in hundredths of Amp Phase T
0x6005	0x00	Internal temperature Secondary	UINT32	ro	Internal temperature1 in tenths of K
0x6006	0x00	Internal temperature Primary	UINT32	ro	Internal temperature 2 in tenths of K
0x6007	0x00	Nominal output frequency	UINT32	ro	Nominal output frequency in Hz
0x6008	0x00	Actual output frequency	UINT32	ro	Actual output frequency in Hz
0x6009	0x00	Actual output voltage set-point	UINT32	ro	Actual output voltage set-point in V
0x600A	0x00	Inverter state	UINT16	ro	Inverter state 3 → Enabled 0 → Disabled 2 → Blocked by overload 1 → Blocked by overload or shortcircuit
0x600B	0x00	Product ID	UINT16	ro	Model number
0x600C	0x00	Firmware version	UINT16	ro	Firmware version
0x6100	0x00	Low input voltage timed shutdown	UINT32	rw	Set the low input voltage timed shutdown in tenths of V
0x610B	0x00	Input voltage minimum warning	UINT32	rw	Set the minimum alarm input voltage in tenths of V
0x6101	0x00	AC status bit	UINT8	rw	Change the status bit (after start up enabled with SW3 =LOCAL and disabled with SW3 =REMOTE) 1 → Inverter enabled 0 → Inverter disabled
0x6102	0x00	Nominal output voltage	UINT32	rw	Set the output voltage Phase-neutral in Vrms (Vo) (output must be stopped) $40 \le x \le 230$
0x6103	0x00	Maximum output current	UINT32	rw	Set the maximum output current in Arms (per mille) 200‰ I _{nom} ≤ ■■■■ ≤ 1000‰ I _{nom}
0x6104	0x00	Nominal frequency	UINT32	rw	Set the nominal output frequency in Hz (Fo) (output must be stopped) $5 \le x \le 75$
0x6105	0x00	Alarm maximum output current	UIN32	rw	Set the alarm maximum output current in Arms (per mille) 0% ≤ x ≤ 1000% I _{max_warning}
0x6106	0x00	Inverter reset	UINT8	wo	1 → Reset the inverter
0x6107	0x00	Minimum starting input voltage	UINT32	rw	Set the minimum input starting voltage in tenths of Volts
0x6108	0x00	Start frequency	UINT32	rw	Set the initial frequency in the startup (Fi) $5 \le x \le 75$
0x6109	0x00	Ramp up value	UINT32	rw	Set the ramp-up in increment of "N" cycles per Hz in mode V/F, frequency changes or start-up (Note-1) $1 \le x \le 100$
0x610A	0x00	Ramp down value	UINT32	rw	Set the ramp-down in decrement of "N" cycles per Hz in mode V/F (Note-1) 2 ≤ x ≤ 100
0x6120	0x00	confi_inversion	UINT8	rw	Change the working mode of the input J4-1,J4-2 0 → Input as reverse phase control (default) 1 → Input as mid-power control (Note-2)
0x6121	0x00	Mid_power _frequency	UINT32	rw	Set the mid-power frequency for V/F mode by the use of input J4-1,J4-2. $5 \le x \le 75$
0x6200	0x00	Runtime target frequency	UINT32	wo	Set a new output frequency in Hz (output must be run and not stored in memory) $5 \le x \le 75$
0x6201	0x00	Runtime output voltage	UINT32	wo	Set a new output voltage in Volts (output must be run and not stored in memory) $40 \le x \le 230$
0x6202	0x00	Runtime frequency V/F	UINT32	wo	Set a new output frequency in Hz in mode V/F (output must be run and not stored in memory) 5 ≤ ■■■■ ≤ 75
0x6203	0x00	Change phase order	UINT32	wo	Changes the output phase order (output must be run and not stored in memory) $1 \to \text{Phase RST (direct phase)}$ $2 \to \text{Phase SRT (reverse phase)}$









Example for N=1: start-up time = N \times 1.7s for changes from 16Hz to 50Hz

Mode V/F curve

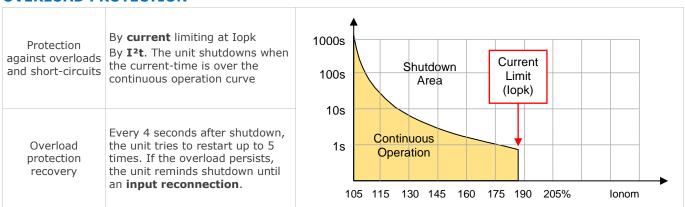
Example for change from 50Hz / 400V to 30HZ and 240V with ramp-down of 2 cycles /Hz and ramp-up de 1 Cycle/Hz. Yellow: output voltage and Green: Mid-Power input signal

WORKING PARAMETERS

WORKING PARAPILIERS					
Thermal protection					
Internal warning temperature (output alarm)		8	8		٥C
Internal shutdown temperature	92				
Internal restart temperature	75				
Internal temperature of fan start-up		4	5		°C
Input voltage parameters	24V	48V	72V	110V	
High input voltage shutdown instantaneous	33.6	62.4	93.6	143.0	Vdc
High input voltage timed shutdown (t) (Input alarm)	31.2	60.0	90.0	137.5	Vdc
Start-up voltage	19.2	38.4	57.6	88.0	Vdc
Low input voltage timed shutdown (t) (Input alarm)	16.8	33.6	50.4	77.0	Vdc
Low input voltage instantaneous shutdown	14.4	28.8	43.2	66.0	Vdc
Time to shutdown (t)		50	00		ms
Output voltage parameters					
Output voltage phase-neutral	230				
Output under-voltage shutdown	< 85% of setting 1000ms				
Warning voltage (output alarm)	< 85% of setting 1000ms < 90% of setting 200ms				
Initial start-up frequency			5		Hz
Soft start duration					
Ramp-up V/F		1 Hz/	cycle cycle		
Output current parameters					
Maximum continuous output current	6.52	8.66	8.66	8.66	А
Warning current (output alarm)	6.20	8.22	8.22	8.22	А
Maximum overload I ² t	See figure below				
Time between restart attempts	4000				
Number of attempts of consecutive overload	5				
Working failures and reset					
Lock for continuous overload or internal failure		Unlimit	ed time		
Reset time by input disconnection		>	2		min

Configurable parameters underlined

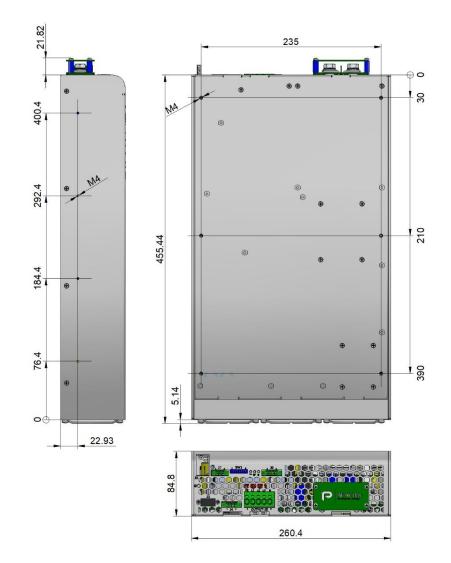
OVERLOAD PROTECTION



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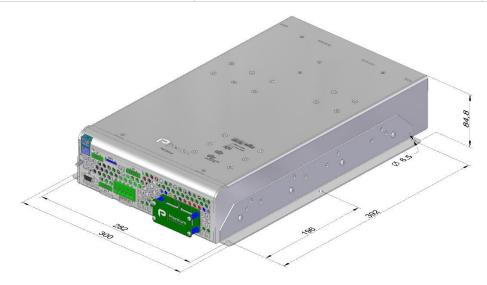




NOTE: All the fixing holes are M4. Maximum screw length inside de inverter 5mm.

ACCESSORIES

Description	Notes	CODE
Mounting brackets kit	Contains two brackets and screws	NP-9282





C E U DECLARATION OF CONFORMITY

The undersigned, representing the following:

Manufacturer: PREMIUM, S. A.,

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

herewith declares that the product:

Type: DC/AC converter

Models: **ODX-6000-7502 ... 7507**

Complies with the essential protection requirements of the following EU directives:

2014/35/EU Low voltage / The electrical equipment (safety) regulations

2014/30/EU EMC / Electromagnetic compatibility regulations

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

electronic equipment

This declaration applies to all specimens manufactured identical to the samples submitted for testing/evaluation.

Assessment of compliance of the product with the requirements relating to aforementioned directives, was performed by Premium S.A. and is based on the following standards:

EN IEC 62368-1:2020 Safety. Audio/video, information and communication technology equipment

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

EN 50155:2021* Railway applications. Electronic equipment used on rolling stock material

EN 50121-3-2:2016* Railway applications. EMC Rolling stock equipment

* Optional, See annexe

CE marking year: 2019

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, 24-04-2023

Albert Sole Technical Director **PREMIUM S.A.** is an ISO9001and ISO14001 certified company by **Bureau Veritas**



UK UKCA DECLARATION OF CONFORMITY

The undersigned, representing the following:

Manufacturer: PREMIUM, S. A.,

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

herewith declares that the product:

Type: DC/AC converter

Models: **ODX-6000-7502 ... 7507**

Complies with the essential protection requirements of the following regulations:

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

SI 2016 No 1091 EMC / Electromagnetic compatibility regulations

SI 2012 No. 3032 RoHS / Restriction of the use of certain hazardous substances in electrical and

electronic equipment

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BS EN 62368-1:2020 Safety. Audio/video, information and communication technology equipment

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

BS EN 50155:2021* Railway applications. Electronic equipment used on rolling stock material

BS EN 50121-3-2:2016* Railway applications. EMC Rolling stock equipment

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, 24-04-2023

Albert Sole Technical Director **PREMIUM S.A.** is an ISO9001and ISO14001 certified company by **Bureau Veritas**

^{*} Optional, See annexe



ANNEXE

	Applic	cable values for	the different	t section	s of the no	rm EN50155:	2017			
4.3.1	Working altitude	Up to 2000m	the uniterent	Section	is of the fit	iiii Liago133.	2017			
4.3.2	Ambient temperature	Class OT2 (-40 Class OT4 (-40								
4.3.3	Switch-on extended operating temp.	ST1	10 70 °C). 108	iu <02.5	70					
4.3.4	Rapid temperature variations	H1								
4.3.5	Shocks and vibrations	According EN61	373:2010 Cat	egory 1	class B					
		Test	Norm	Poi		requency	Limits			
		Radiated				Hz230MHz MHz1GHz	40dB(μV/m) Qpk at 10m 47dB(μV/m) Qpk at 10m			
		emissions	IEC55016	Cas	Δ	13GHz	Do not apply			
						36GHz	Internal freq. < 108MHz			
		Conducted	IEC55016	Inp		kHz500kHz	99dB(μV) Qpk			
		emissions	12000010	2p	500	kHz30MHz	93dB(μV) Qpk			
		Test	Noi	m	Port	Severity	Conditions	P		
		Electrostation	IEC610	00-4-2	Case	±8kV	Air (isolated parts)	В		
	EMC Electromagnetic	discharge				±8kV 20V/m	Contact (conductive parts) 0.081.0GHz M. 80% 1kHz			
	Compatibility	Radiated				10V/m	1.42.1GHz M. 80% 1kHz	A		
4.3.6	. ,	high-frequen	Ey IEC610	00-4-3	X/Y/Z Axis	5V/m	2.12.5GHz M. 80% 1kHz			
	EN50121-3-2:2016					3V/m	5.16Ghz M. 80% 1kHz			
					Input Output	±2kV ±2kV				
		Fast transien	ts IEC610	IEC61000-4-4 IEC61000-4-5 In Inp		±2kV	Tr/Th: 5/50 ns			
						±1kV				
		Surge	IEC610				Tr/Th: 1.2/50µs	В		
						PE ±2kV 10V	,,			
				IEC61000-4-6 Input Output Signal PE		10V				
		Conducted R	F IEC610			10V	0.1580MHz M. 80% 1kHz	Α		
		Manashia fial	J TECC10			10V	011- 16 711- 50/6011-	Α		
		P = Performance criteria, L= Line, PE= Protective Earth								
4.3.7	Relative humidity DC power supply range	Up to 95% From 0.70 to 1.	25 Un continu	10116						
	Temporary DC power	From 0.60 to 1.		ious						
5.1.1.3	supply fluctuation	From 1.25 to 1.		out dam	age					
5.1.1.4	Interruptions of voltage supply	Class S1 (witho	·							
	Input ripple factor	10% peak to pe					orion A			
5.1.3	Supply change-over Input reverse polarity	0.6 Un duration	•	out inter	ruptions). Pe	errormance criti	erion A			
7.2.7	protection	By external fuse	9							
10.7	Protective coating for PCB assemblies	Class PC2								
		1 Visual Inspe 2 Performance				Routine Routine				
		3 Power suppl				Routine				
		4 Insulation to				Routine				
		5 Low temper				-				
		6 Low temper		test		Type				
13.3	Tests list	7 Dry heat tes 8 Cyclic damp				Type				
		9 Salt mist tes				Type -				
		10 Enclosure pr		(IP code))	-				
		11 EMC test	. illa matti - m	_		Туре				
		12 Shocks and 13 Equipment s				Type Routine: at 4	0°C and load 100%			
				_		Type	, C and 1000 100 /0			
			14 Rapid Temperature variation test Type							

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