

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)

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

Parallelable output (optional)















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



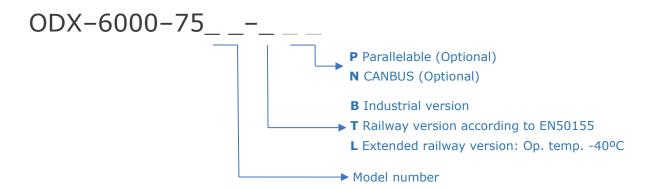
INPUT		
Input voltage range	-30, +25% Vin nom	
Maximum input ripple	5% Vin nom (Vrms, 100Hz)	
OUTPUT		
Nominal output voltage (Von)	See table	
Output voltage range	20100% of Von (adjust via remo	ote control)
Output frequency	50 / 60Hz via DIP-switch, 575Hz	z via RS-232
Load regulation	< 4.5%	
Line regulation	< 2% Vin -25% +25% < 10% Vin -30% +30% < 20 % Vin -40 % +40 % (100	lms)
Output wave distortion THD	< 2% (average of 16 samples)	
Output HF ripple	< 2.5%	
ENVIRONMENTAL	Options B and T	Option L (Note-1)
Storage temperature	-25 80 °C	-40 80 °C
Operating temperature: Full load Operating temperature: 62.5 % load Operating temperature: 25 % load	-25 55 °C (EN50155 OT1) -25 70 °C (EN50155 OT3) -25 85 °C (EN50155 OT5)	-40 55 °C (EN50155 OT2) -40 70 °C (EN50155 OT4) -40 85 °C (EN50155 OT6)
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 I	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 op	tions T and L , railway versions)
MECHANICAL		
Weight	< 8950 g	
Protection degree	IP20	
PROTECTIONS		
Against overloads	Current and I ² T limited (see overl	load 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 ratir	ng: 0.16A at 160Vdc
Output alarm	Open when alarm. Maximum ratir	ng: 0.16A at 160Vdc
Remote OFF input	Off applying 15143 Vdc (acc. to	EN50155), Impedance >35 k Ω

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



ORDERING CODES

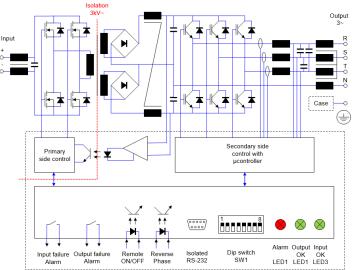
Model	Input	Input Max.		Output	Output Active		- 1 1	Output peak current		Efficien.	No load
	voltage DC	5	Input voltage current AC		current	power	power	5s (rms)	(lopk) 10ms	5047	input
	[V]	[V]	[A]	[V]	[A]	[W]	[VA]	[A]	[A]	[%]	[A]
ODX-6000-7502	24	16.8 - 30	232	400	6.50	3500	4500	7.8A	20	91.0	1.70
ODX-6000-7505	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



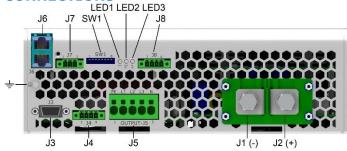
Accessories must be ordered in a separate order line The option P (parallelable) always has N (CANBUS) Please check availability for P or N options



BLOCKS DIAGRAM

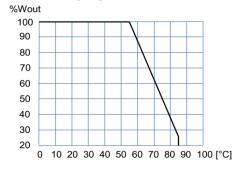


CONNECTIONS



J1	-Vin	Terminal M8		
J2	+Vin	Terrilliai Pio		
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	Dhaaniy Cantast MC1 E/4 CE 3 01		
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 MC1.5/4-51F-5.6.		
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	Female D-Sub DB9		
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

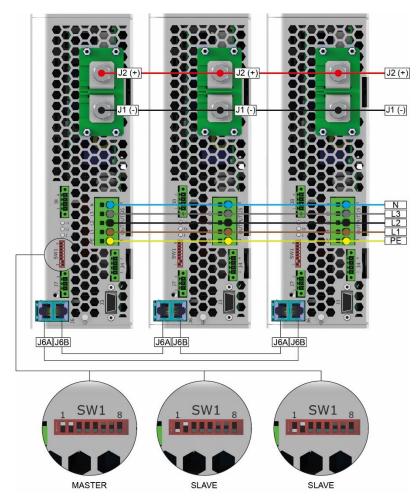
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The models 75xxTPN are designed to work in parallel with one unit set as a MASTER and the rest as SLAVES.

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.

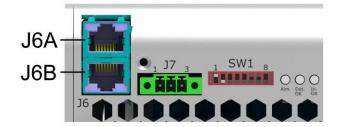
In addition, it is necessary to interconnect the output port respecting the phase order, as shown in the diagram:



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			
					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			
			4	===.=	OK / ERR	Set the output voltage Phase-neutral in Vrms (Vo)(output must be stopped) 040.0≤ ■■■.■ ≤ 230.0			
Р	R		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 $005.0 \le \blacksquare \blacksquare \blacksquare . \blacksquare \le 75.0$			
			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 ≤ ■■■.■ ≤ 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)

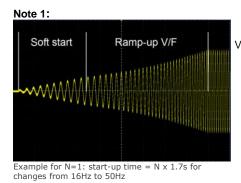
It is possible to control and monitor the unit using the CAN connection with the CANOpen protocol. It is provided an .eds file with all the objects available.

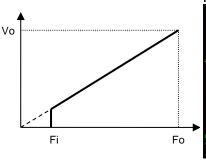
Protocol configuration: 250kbit/s, NODE ID: 1. The most relevant objects can be found in the following table:

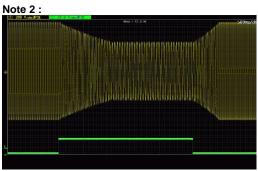


Index	Subindex	Name	Type	Attribute	Explanation
0x6001	0x00	Input voltage	UINT32	ro	Input voltage in tenths of Volt
0x6002	0x00	Input Ripple Voltage	UINT32	ro	Input voltage ripple in tenths of Volt
0x6003	0x01	Vrn	UINT32	ro	Output voltage in Volts Phase R-Neutral
0x6003	0x02	Vsn	UINT32	ro	Output voltage 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	0x02	IT	UINT32	ro	Output current in hundredths of Amp Phase T
		Internal temperature		10	Output current in fluidicuties of Amp Phase 1
0x6005	0x00	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) $2 \le x \le 100$
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 → Phase RST (direct phase) 2 → Phase SRT (reverse phase)









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 PARAMETERS							
Thermal protection							
Internal warning temperature (output alarm)	88						
Internal shutdown temperature		9	2		°C		
Internal restart temperature		7	5		°C		
Internal temperature of fan start-up		45					
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)		< 90% of se	etting 200ms				
Initial start-up frequency		Hz					
Soft start duration	1 cycles						
Ramp-up V/F		1 Hz/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 figu	re below				
Time between restart attempts	4000						
Number of attempts of consecutive overload	5						
Working failures and reset							
Lock for continuous overload or internal failure		Unlimited time					
Reset time by input disconnection		>	2		min		

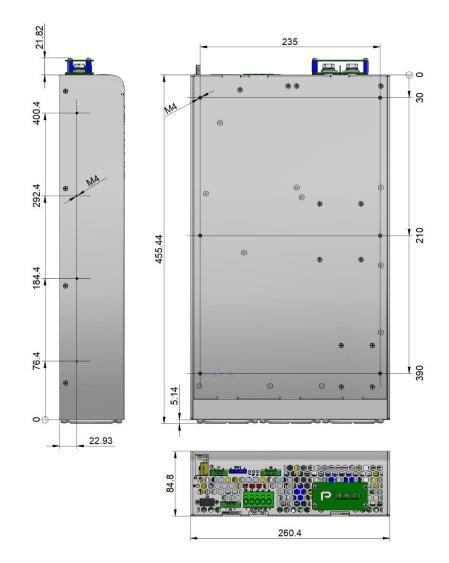
Configurable parameters underlined

OVERLOAD PROTECTION

	(OTECTION		
Protection against overloads and short-circuits		1000s 100s	Shutdown Current Limit (lopk)
Overload protection recovery	Every 4 seconds after shutdown, the unit tries to restart up to 5 times. If the overload persists, the unit reminds shutdown until an input reconnection .	10s 1s	Continuous Operation 05 115 130 145 160 175 190 205% lonom

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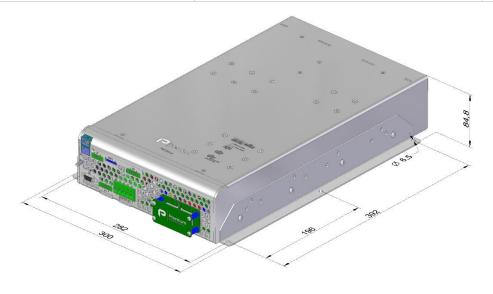




NOTE: All the fixing holes are M4. Maximum screw length inside de inverter 5mm.

ACCESSORIES

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





CE CH EU, 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/DC converter

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

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 below have been applied:

EN 60950-1: 2005 Safety. Information technology equipment

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

EN 61000-6-3: 2007 Generic emission standard EN 61000-6-2: 2005 Generic immunity standard

EN 50155: 2017* Railway applications. Electronic equipment used on rolling stock material

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

CE marking year: 2019; 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, 13-09-2021

Albert Sole Technical Director

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

^{*} Optional, See annexe



ANNEXE

	Applic	able values for t	he different	saction	es of the no	rm ENEO1EE	2017				
4.3.1	Working altitude	Up to 2000m	ne unierent	SECTION	is or the no	,, III FIA20122;	201/				
4.3.2	Ambient temperature	For options B and For options B and For options B and For option L: Cla For option L: Cla	or options B and T: Class OT1 (-25 to 55 °C): load < 100 % or options B and T: Class OT3 (-25 to 70 °C): load <62.5 % or options B and T: Class OT5 (-25 to 85 °C): load <25 % or option L: Class OT2 (-40 to 55 °C): load < 100 % or option L: Class OT4 (-40 to 70 °C): load <62.5 % or option L: Class OT6 (-40 to 85 °C): load <25 %								
4.3.3	Switch-on extended operating temp.	ST1									
4.3.4	Rapid temperature variations	H1	L								
4.3.5	Shocks and vibrations	According EN61373:2010 Category 1 class B									
		Test	Norm	Poi	rt F	requency	Limits				
						IHz230MHz	40dB(μV/m) Qpk at 10m				
		Radiated emissions	IEC55016	Cas	se 230)MHz1GHz 13GHz	47dB(μV/m) Qpk at 10m Do not apply				
		CITIISSIONS				36GHz	Internal freq. < 108MHz				
		Conducted emissions	IEC55016	Inp		kHz500kHz kHz30MHz	99dB(μV) Qpk 93dB(μV) Qpk				
		emissions			300	KI IZJUMI IZ	93αΒ(μν) ζρκ				
		Test	Norn	n	Port	Severity	Conditions	P			
		Electrostatic discharge	IEC61000	0-4-2	Case	±8kV ±8kV	Air (isolated parts) Contact (conductive parts)	В			
	EMC Electromagnetic	discharge				20V/m	0.081.0GHz M. 80% 1kHz				
4.2.6	Compatibility EN50121-3-2:2016	Radiated	IEC61000-4-3		X/Y/Z Axi	10V/m	1.42.1GHz M. 80% 1kHz 2.12.5GHz M. 80% 1kHz 5.16Ghz M. 80% 1kHz				
4.3.6		high-frequency	/	12001000 . 0		5V/m 3V/m					
					Input	±2kV	312 307.0 212				
		Fast transients	IEC61000	IEC61000-4-4		±2kV ±2kV	Tr/Th: 5/50 ns	Α			
						±2kV ±1kV	-				
		Surge			Input L to		Tr/Th: 1.2/50µs	В			
					Input L to	PE ±2kV 10V	, , , , , , , ,				
		Conducted RF			Output	10V	- 0.1580MHz M. 80% 1kHz				
		Conducted Ki			Signal PE	10V 10V	0.1300M12 M. 00 /0 TKH2	Α			
		Magnetic field IEC61000-4-8			X/Y/Z Axi		0Hz, 16.7Hz, 50/60Hz	Α			
4.3.7		P= Performance Up to 95%	criteria, L= Li	ne, PE=	= Protective	Earth					
	Relative humidity DC power supply range	From 0.70 to 1.2	5 Un continuc	us							
5.1.1.3	Temporary DC power supply fluctuation	From 0.60 to 1.4 From 1.25 to 1.4		ut dam	age						
5.1.1.4	Interruptions of voltage supply	Class S1 (withou	t interruptions	5)							
5.1.1.6 5.1.3	Input ripple factor Supply change-over	10% peak to pea 0.6 Un duration					torion A				
7.2.7	Input reverse polarity protection	By external fuse	100 ms (with	out inte	rruptions). F	remormance cm	LETION A				
10.7	Protection Protective coating for PCB assemblies	Class PC2									
13.3	Tests list	1 Visual Inspection 2 Performance test 3 Power supply test 4 Insulation test 5 Low temperature storage test 7 Dry heat test 7 Dry heat test 9 Salt mist test 10 Enclosure protection test (IP code) 11 EMC test 12 Shocks and vibrations test 13 Equipment stress screening test 14 Rapid Temperature variation test 17 Power of the foundations test 16 Routine 17 Power of the foundation test 18 Routine 18 Routine 18 Routine 18 Routine 18 Type 19 Type 19 Type 10 Type 11 EMC test 11 Equipment stress screening test 12 Shocks and vibrations test 13 Equipment stress screening test 14 Rapid Temperature variation test 15 Routine 17 Type 17 Type 18 Routine 19 Routine 10 Routine 10 Routine 10 Routine 11 Type 17 Type 18 Routine 19 Routine 19 Routine 10 Routine 10 Routine 10 Type 17 Type 18 Routine 19 Routine 19 Routine 10 Routine 10 Routine 10 Routine 10 Routine 10 Routine 10 Routine 11 Type 17 Type 18 Routine 19 Routine 10 Routine 10 Routine 11 EMC test 10 Enclosure protection test 11 EMC test 12 Routine 11 Type 12 Routine 13 Routine 14 Routine 15 Routine 16 Routine 17 Type 17 Routine 18 Routine 18 Routine 18 Routine 18 Routine 18 Routine 19 Routine 10 Routine 10 Routine 10 Routine 10 Routine 10 Routine 10 Routine 11 Routine 11 Routine 11 Routine 11 Routine 12 Routine 13 Routine 14 Routine 15 Routine 16 Routine 17 Routine 17 Routine 17 Routine 17 Routine 17 Routine 18 Routine 19 Routine 19 Routine 19 Routine 10 Routine 10 Routine 10 Routine 10 Routine 10 Routine 10 Routine 11 Routine 11 Routine 11 Routine 11 Routine 12 Routine 13 Routine 14 Routine 16 Routine 17 Routine 17 Routine 17 Rou									

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