

Product Certificate Number	11212-2-CER-E1
Applicant	CIRCUTOR, S.A. Vial Sant Jordi, s/n 08232 Villadecavalls. Barcelona, Spain
Series/	Fronius Primo / CDP / MC3 / GE CTX
Model/	Fronius Primo 8.2-1 / CDP-0 / MC3-63 / GE CTX 634052
Type of generating unit	Single Phase Inverter / Dynamic Power Controller
Technical Data	See page 2, 3 and 4
Standard	UNE 217001 IN: 2015: Requisitos y ensayos para sistemas que eviten el vertido de energía a la red de distribución.

Having assessed the test report number: 11212-2-TR performed by CERE Testing Laboratory based on the requirements of the EN ISO/IEC 17025:2005

The above-mentioned generating unit complies with the requirements of the: UNE 217001 IN: 2015: Requisitos y ensayos para sistemas que eviten el vertido de energía a la red de distribución.

This certification is according the CERE internal process PET-CERE-09 Rev 5 based on the requirements of the EN ISO/IEC 17065:2012. For this certification process the conformity assessment activities based on:

- Testing of production samples selected by CERE.
- Audit of quality system according ISO 9001 with certificate number: QMS 140506-01/B issued by a certification body accredited according EN ISO/IEC 17021.
- Inspection of the manufacturing process.

This certificate cancels and supersedes the certificate number: 11212-2-CER.

Madrid, March 07, 2017. This certificate is valid until February 27, 2020

Miguel Martínez Lavin
Certification Manager

Inverter characteristics:

INPUT DATA	PRIMO 3.0-1	PRIMO 3.5-1	PRIMO 3.6-1	PRIMO 4.0-1	PRIMO 4.6-1
Max. input current ($I_{dc\ max.1} / I_{dc\ max.2}$)			12.0 A / 12.0 A		
Max. array short circuit current (MPP ₁ /MPP ₂)			18.0 A / 18.0 A		
Min. input voltage ($U_{dc\ min}$)			80 V		
Free to start voltage ($U_{dc\ start}$)			80 V		
Nominal input voltage ($U_{dc,n}$)			710 V		
Max. input voltage ($U_{dc\ max}$)			1,000 V		
MPP voltage range ($U_{MPP\ min} - U_{MPP\ max}$)		200 - 800 V		210 - 800 V	240 - 800 V
Number of MPP trackers			2		
Number of DC connections			2 + 2		
Max. PV generator output ($P_{dc\ max}$)	4.5 kW _{peak}	5.3 kW _{peak}	5.5 kW _{peak}	6.0 kW _{peak}	6.9 kW _{peak}
OUTPUT DATA	PRIMO 3.0-1	PRIMO 3.5-1	PRIMO 3.6-1	PRIMO 4.0-1	PRIMO 4.6-1
AC nominal output ($P_{ac,n}$)	3,000 W	3,500 W	3,650 W	4,000 W	4,600 W
Max. output power	3,000 VA	3,500 VA	3,650 VA	4,000 VA	4,600 VA
AC output current ($I_{ac\ nom}$)	13.0 A	15.2 A	16.0 A	17.4 A	20.0 A
Grid connection (voltage range)	1 - NPE 220 V / 230 V (180 V - 270 V)				
Frequency (frequency range)	50 Hz / 60 Hz (45 - 65 Hz)				
Total harmonic distortion	< 5 %				
Power factor ($\cos \phi_{ac,n}$)	0.85 - 1 ind. / cap.				

INPUT DATA	PRIMO 5.0-1	PRIMO 5.0-1 AUS	PRIMO 6.0-1	PRIMO 8.2-1
Max. input current ($I_{dc\ max.1} / I_{dc\ max.2}$)	12.0 A / 12.0 A		18.0 A / 18.0 A	
Max. array short circuit current (MPP ₁ /MPP ₂)	18.0 A / 18.0 A		27.0 A / 27.0 A	
Min. input voltage ($U_{dc\ min}$)			80 V	
Free to start voltage ($U_{dc\ start}$)			80 V	
Nominal input voltage ($U_{dc,n}$)			710 V	
Max. input voltage ($U_{dc\ max}$)			1,000 V	
MPP voltage range ($U_{MPP\ min} - U_{MPP\ max}$)		240 - 800 V		270 - 800 V
Number of MPP trackers			2	
Number of DC connections			2 + 2	
Max. PV generator output ($P_{dc\ max}$)	7.5 kW _{peak}	7.5 kW _{peak}	9.0 kW _{peak}	12.3 kW _{peak}
OUTPUT DATA	PRIMO 5.0-1	PRIMO 5.0-1 AUS	PRIMO 6.0-1	PRIMO 8.2-1
AC nominal output ($P_{ac,n}$)	5,000 W	4,600 W	6,000 W	8,200 W
Max. output power	5,000 VA	5,000 VA	6,000 VA	8,200 VA
AC output current ($I_{ac\ nom}$)	21.7 A	21.7 A	26.1 A	35.7 A
Grid connection (voltage range)	1 - NPE 220 V / 230 V (180 V - 270 V)			
Frequency (frequency range)	50 Hz / 60 Hz (45 - 65 Hz)			
Total harmonic distortion	< 5 %			
Power factor ($\cos \phi_{ac,n}$)	0.85 - 1 ind. / cap.			

Model:	CDP-0, CDP-G, CDP-DUO
Circuito de alimentación	
Tension nominal	230 Vca (80...115%)
Frecuencia	50...60 Hz
Consumo	6 VA / 6 W
Tension nominal	12 VCC
Circuito de medida de tension	
Margen de medida	10...300 Vca
Frecuencia	50...60 Hz
Circuito de medida de corriente	
Corriente nominal	.../250 mA
Corriente máxima	.../300 mA
Clase de precision	
Potencia	0,5%
Energía	1%
Salidas de relé	
Número	4
Tipo	Libre de potencial
Corriente máxima de maniobra	6 A
Comunicaciones	
Interfaz de usuario	Ethernet
Comunicacion con inversor	RS-232, RS-485, RS-422
Comunicacion otros equipos	RS-485
Características constructivas	
Dimensiones	6 módulos DIN
Envolvente	Plástico UL94-V0 Autoextinguible
Peso	250 gr
Condiciones ambientales	
Temperatura de trabajo	-25°C...+70°C
Humedad relativa	95% sin condensación

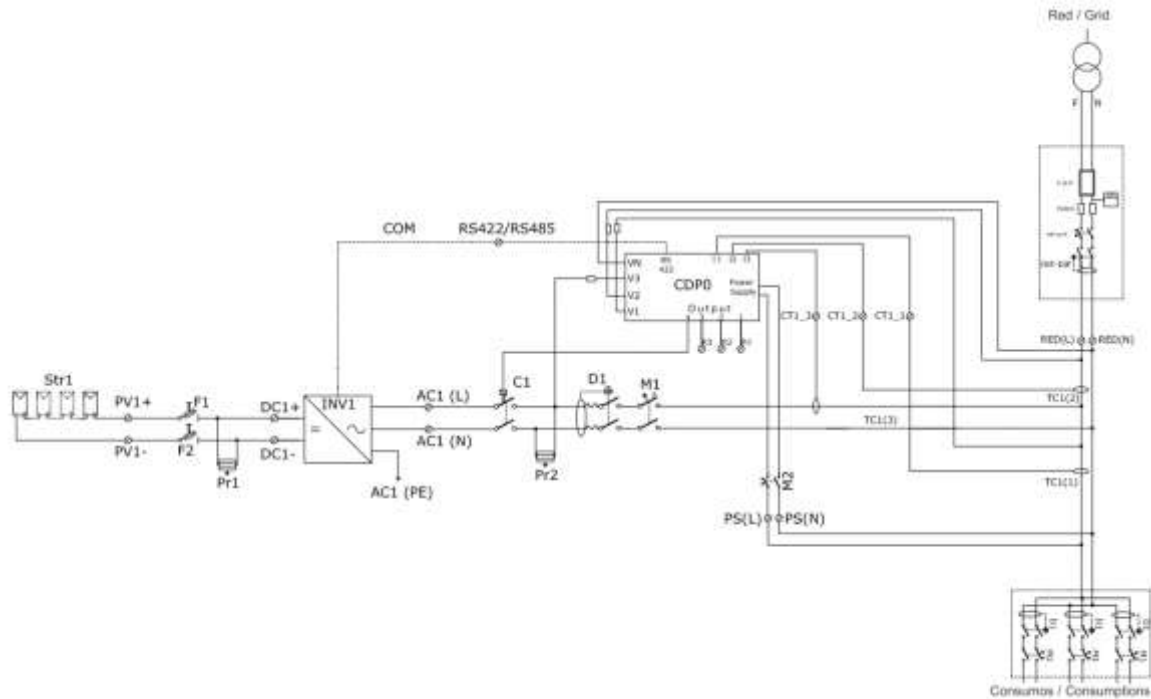
Switch of grid characteristics:

Model:	CTX 634052
Intensidad nominal	63 A
Combinación de contactos	4NA
Tensión de la bobina	230 V
CA/CC	CA/CC
Nº Modulos	3
Tipo	CTX63 40 230 U
Código	666156
Sum. (uds)	3

Current sensors:

Model:	MC3-63	MC3-125	MC3-250
Corriente máxima	63 A	125 A	250 A
Frecuencia	50/60 Hz		
Tensión de aislamiento	3 kVca		
Corriente térmica de cortocircuito (I_{th})	60 I_n		
Corriente dinámica (I_{dyn})	2,5 I_{th}		
Tensión mas elevada para el material	0.72 kVca		
Clase	0.5		
Clase térmica	B (130 °C)		
Tipo de encapsulado	Plástico V0 autoextinguible		
Factor de seguridad	Fs 5		
Bornes secundarios precintables	Si		
Terminales secundarios	IP20		

Electrical Diagram:



Manufacturer

CIRCUTOR, S.A.
Vial Sant Jordi, s/n
08232 Villadecavalls. Barcelona. SPAIN

The sample selected to test was representative of the production.
The sample was selected in manufacture facilities.

On January 16, 2017

Sample Report Number:

11212-2-TM
11212-6-TM
11212-7-TM
11212-9-TM

The inspection of manufacturing process was performed in
manufacture facilities:

On February 10, 2017

Inspection Report Number:

11212-2-IF