

A generator needs a reliable, flexible and stable power supply for working. With a Crawler, this power supply is brought by a battery set embarked in the mechanical carrier. The CF3 is the power converter (Chopper) between the batteries and the Generator. However the CF3 is also an intelligent regulator which will be able to give out of your batteries the most stable and constant output all along your exposures. Our Chopper CF3 is the result of the technology evolution that is applicable in electronics nowadays.

Based on the well known CF1 that has equipped several generations of Crawlers around the globe, this new model has also been developed to be used with the major brands of Crawler Manufactures.

The CF3 features a separate set up and remote control device (CFR) which allows you to manage parameters and preheating functions.

Compatibility

A 220v optional power box exists which allows you to use your Balteau X-ray generator on Mains or with a Power generator without the batteries of its mechanical carrier or for the preheating of the generator (tube). Our CF3 has primarily been designed to be mounted with our Baltospot generators and with our line of Crawlers but the way our electronic has been encapsulated and designed is allowing this unit to be mounted in existing foreign units as long as they use the same standards recognized internationally.

Sturdy construction

As the environment where crawlers operate is difficult, BALTEAU has particularly studied which components were to be used. Through a very strict selection of components, some of them being from the military field, we have succeeded to build a robust and performing unit that can drive any of the Baltospot Crawler generators. Thanks to the feed back and support of a big name of mechanical carriage for Crawlers, we have reduced the number of boards to the most as well as to limit external controls not only for simplicity but also for reducing the communication with exterior hostile environment.

Size matters

Our CF3 can fit in extremely small spaces. We have used SMD (surface mount device) electronics and considered the smallest known to date space as being our reference. No compromises have however been made to



capacity and a considerable reserve of power is present in the CF3.

Battery Management

The CF3 and the corresponding generators have been designed for a 100V (minimum) to 140V (maximum) supply battery voltage. Generator power supply normally consists in ten 12V batteries connected in series which are delivering 120V+ to the generator. The optional 230VAC power module can also be used to operate off the mechanical carriage or without batteries for limited operations on pipes. This block is automatically detected by the CF3.

Preheating

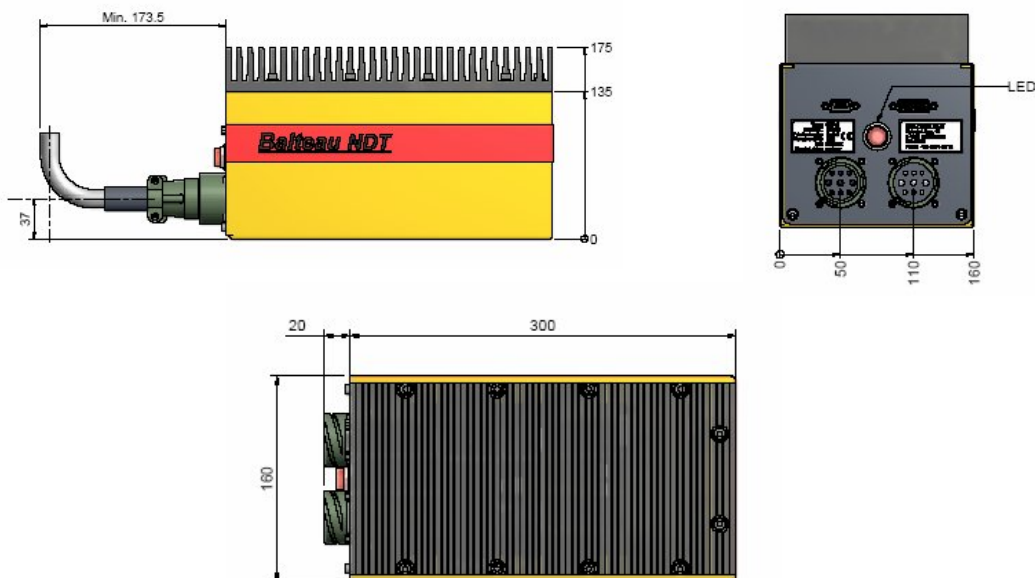
Preheating can be performed on the crawler mechanical carrier chassis or using a spare battery pack or the optional 230VAC module. The CFR hold memory on the required preheating time by retrieving all the data stored in the CF3. That way you are always aware of the preheating time to apply to the generator.

All your X-ray data in one hand

The CFR allows you to set all the parameters needed to start, set and manage your X-ray exposure. A memory of all the generators used before brings you a useful information of what has been done previously. Reliability and set up of your parameters become much more easy.

Specifications

Mechanical



Electrical

Mains supply DC	V	100-140
Duty Cycle	%	100
Operating Temperature	°C	-10 to +45
CF3 Power supply with 3m cable (optional)	VAC	230 (50-60 Hz)
Connection cable to X-ray generator	m	Up to 20

Functions

kV range	kV	100-300
kV adjustment step	kV/step	10-20-30
Current	mA	3
mA adjustment step	mA/step	0.1
Automatic preheating calculation		Yes
Preheating Monitoring through CFR		Yes
Buzzer		Yes

Producer

Balteau NDT sa

Voie de Liège, 12
B-4681 Hermalle Sous Argenteau
BELGIUM

Tel.: +32 4 374 75 75
Fax: +32 4 374 75 85
E-mail: balteau@balteau-ndt.com
Website: www.balteau.com

Distributor

All specifications are non contractual and are subject to change without prior notice