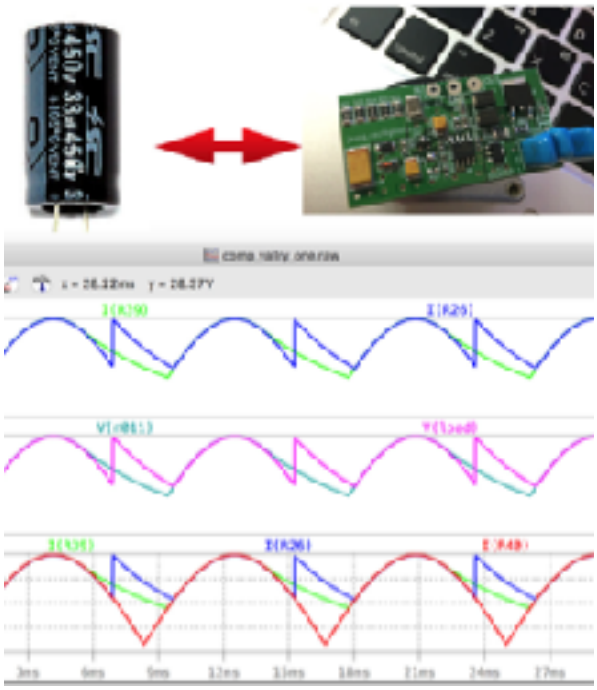
FIDES-M4

UHV Valley Fill Solid Capacitor



Introduction

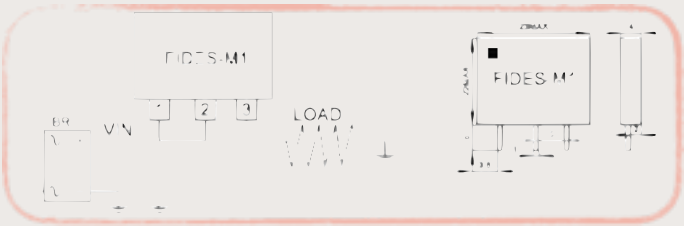
Designed in novel AC-DC valley fill circuit topology providing very high reliability valley fill smart digital controlled solid capacitor module reduced DC ripple substitute for UHV electrolytic aluminum capacitor's.

Great benefit for 100K/h MTBF's in the -55°C~125°C wide operating temperature with increase PFC over 0.75 and less inrush current.

Just substitute end use of valley fill capacitor in any AC-DC converter valley fill.

Features

- Ultra long service life time.
- Wide operating voltage and temperature.
- No high temperature thermal aging.
- Increase PF up to over 0.75
- Strong overload immunity.
- Easy application exchange the existing Cap.
- Small and thin module 22x23x3mm (20Watts@230VAC Input) Integral 3.9716J
- Reasonable price



PIN NAME	DESCRIPTION
1. +OUT	DC70~370V max DC smooth filter output
2. +IN	DC70~370V max DC input rectified DC
3. AGND	Ground for capacitor module

*AC50~265V @30~80Hz I_{max}=1000mA

Additional Information :
Complete engineering documentation, including demo sample is available from FIDES web site (www.standbyzero.com)

Address : FIDES

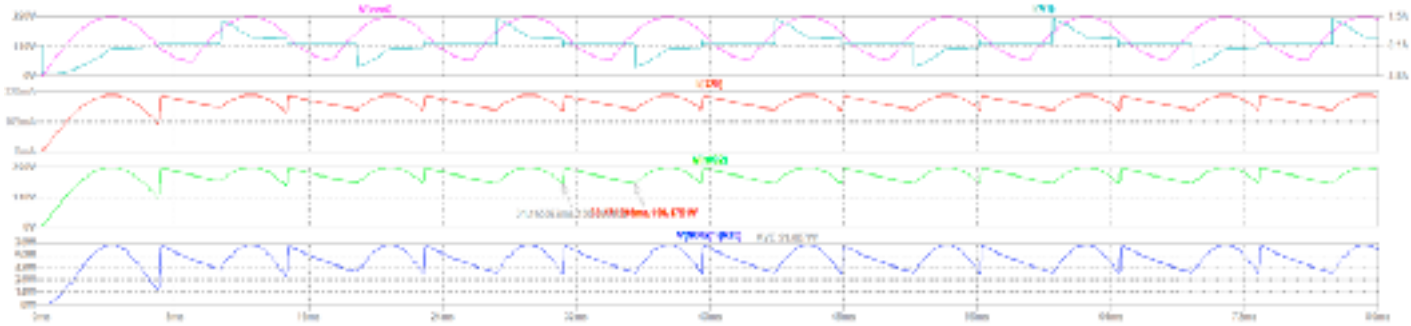
B303 Songdosmartvalley Songdo Yeonsu Inchon, Korea

https://www.standbyzero.com/

FIDES-M4 PIN Function

Parameter	Symbol	Limits	Conditions
1PIN	GND		Ground. Current return for the signal part of the module and the VCAP. All of ground connections of the bias components should be tied to a trace going to this pin and kept separate from any pulsed current return.
2PIN INPUT VOLTAGE	+HVDC	+380V	1Hz~140Hz Continue IF 2A limit.
3PIN OUTPUT VOLTAGE	+DCO	Vpeak	Valley fill smooth filter output.
4PIN VCAP	μF/V	-	External high voltage smooth capacitor.

Smooth filter waveform



AC current waveform