

# SERIES SFC

# CM3-6P STATIC FREQUENCY CONV.

The **Series SFC** incorporates the latest technology in solid state PWM Inverter and advanced Rectifier controls combined with the use of Galvanic Isolation on the output creates a rugged and efficient static frequency converter. This advancement in digital technology gives the PS&C **Series SFC** a great advantage over other conventional frequency converters. Although IGBTs are a more expensive solution, PS&C employs the digital inverter topology over the older technology (i.e. diodes & SCRs) when the customer requires it. Since 1965 PS&C has vested in the development of power conditioning equipment and we always create the best solution for the task. With an incredible input range reaching further, this machine will support equipment in the most extreme electrical conditions. **Series SFC** comes with access to PS&C's Service Division which gives our customers the type of support which is not only required today, but is mandatory for industry to continue to move on a daily basis.

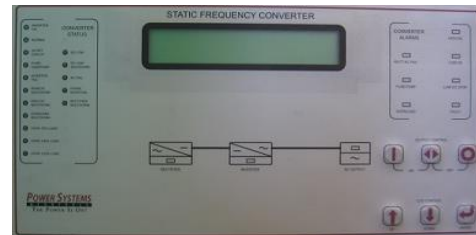


## Standard Equipment Features

- É Digital 6 Pulse Rectifier
- É PWM IGBT Inverter
- É Nema 1
- É Wide Input Range (Optional)
- É Input Frequency is 47 to 53 Hz
- É Output Voltage THD is less than 3%
- É Lower Audible Noise
- É Front Access
- É SNMP Support over Ethernet (Optional)
- É RS485 communications port
- É Modbus over TCP/IP support for Ethernet (Optional)
- É LCD display with softkeys for control

## Optional Features

- Split input/output voltage
- Nema 3R Enclosures
- Nema 12 Enclosures
- Remote monitor (Status)
- HTTP Monitoring Support
- Turn-key+Installation
- Remote communications
- Outdoor Enclosures



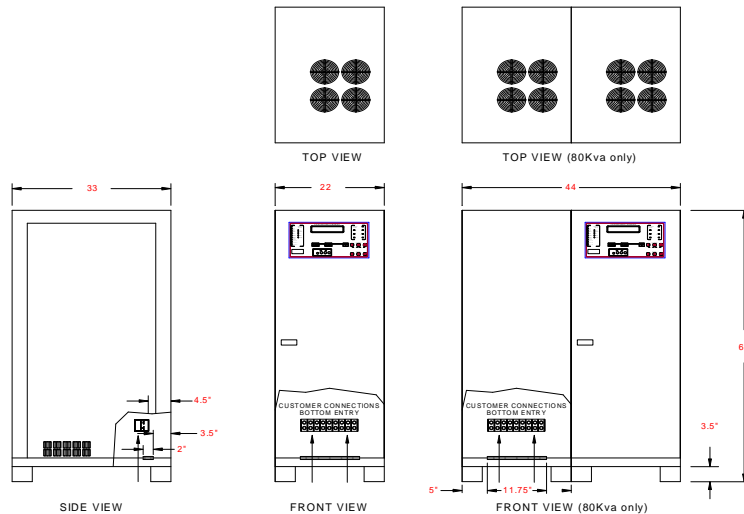
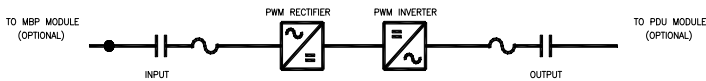
Graphic Interface  
(shown without options)

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# System Specifications

INPUT		OUTPUT	
Nominal Voltage Available		Nominal Voltage Available	
➤ @ 60 Hz	208/440/460/480	➤ @ 60 Hz	208/240/440/460/480
➤ @ 50 Hz	380/400/415	➤ @ 50 Hz	190/220/23/380/400/415
		➤ @ 400 Hz	200/208
➤ Phase	3 Phase 3 or 4 Wire + Gnd	➤ Phase	3 Phase 3 or 4 Wire + Gnd
➤ Frequency Range	47 to 63Hz & 400Hz	➤ Frequency Regulation	± .1hz for 50 & 60Hz ± .4hz for 400Hz
➤ Magnitude Tolerance		➤ Voltage Adjustment	± 10% from nominal
➤ Continuous	+15%, -15%	➤ Voltage Regulation	± 15% (Optional)
➤ Transient	1500v for 1 ms	➤ Balanced Load	± 1.0%
➤ Current Distortion	< 2% (Linear Load)	➤ 25% Imbalance	± 2% phase to phase
<b>General</b>		<b>Voltage THD (Total Harmonic Distortion)</b>	
➤ Crest Factor	3 : 1	➤ Single	2% Max
➤ Efficiency	> 90%	<b>Overload Capacity</b>	
➤ Interlock	28VDC E&F (Optional)	➤ 100% Rating	Continuous
➤ Dead Front Interlock	Immediate Shutdown (Optional)	➤ 125%	15 Minutes
		➤ 150%	10 Minutes
		➤ > 150%	1 Minutes
		<b>Output Power Factor</b>	
		➤ Power Factor	.80
<b>ENVIRONMENT</b>			
➤ Temperature		32° to 104° F (0° to 40° C) (55° C Optional)	
➤ Altitude		0 to 6600 FT	
➤ Humidity		0 to 90% non-condensing	
➤ Noise Level		65 dBa @ 3 FT (50&60Hz)	



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