



## Static var generator with excellent attenuation of inductive and reactive power

Datasheet 3/2019

**APPROVALS:**

**FINSVG.(030 - 100)**
**FEATURES**

- No capacitor bank
- Controls PF compensation
- Unaffected by harmonic resonance
- High speed response

**BENEFITS**

- Compensation from 30 KVAR
- Compensation for inductive and capacitive reactive power
- Modular design
- Remote control RS485 as standard (Modbus-Profibus optional)

**MARKETS**

- Soft start motors
- DC motors
- Oil and water plants
- Processing machinery
- End-user facilities

**ORDERING CODE**

FINSVG	.100	.4	.4F	.W	.D
Model	Kvar	4 = 400V	3F = 3phase	R = Rack mount	D = with HMI
		5 = 480V	4F = 3phase with neutral	W = Wall mount	C = without HMI
		6 = 600V			
		7 = 690V			

**ATTENUATION INDICATOR**

High	Very High	Excellent

**TECHNICAL SPECIFICATIONS**

Nominal voltage	400 / 690 Vac
Frequency	50 – 60 Hz -5 / +3%
Reactive power compensation	30-100 Kvar
PF Compensation	0.99
Overall efficiency	>97%
Power grid structure	3-phase, 3-phase plus neutral
Current transformer	150:5 ~ 10,000:5
Reaction time	<50 us
Overall response time	<5 ms
Switching frequency	20 kHz
Communication ports	RS485
Communication protocols	Modbus, TCP/IP
Module display interface	4.3 inch LCD touch screen
Optional external display interface	8.0 inch LCD touch screen (FINHMI8.0)
Altitude	1500m Over power decreases by 1% every 100m
Operating temperature	-10°C / + 40°C
Protection class	IP 20
Noise level	<56 dB
Color	Ral 7035, Black

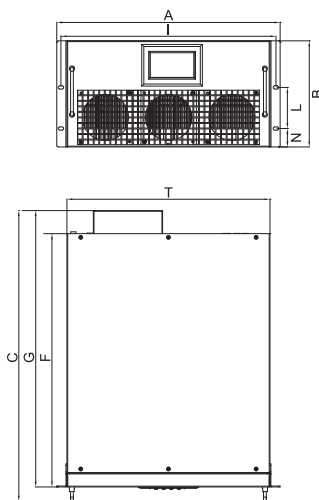
**ELECTRICAL CHARACTERISTICS**

FINSVG	Rated Compensation (Kvar)	Rated Voltage (Vac)	Power Grid Structure	Cooling Mode	Response Time
.030.4.X.Y.Z	30	400 (-40%+15%)	3P3W ; 3P4W	Air 75L/sec	<5ms
.040.5.X.Y.Z	40	480 (-20%+15%)	3P3W ; 3P4W	Air 359L/sec	<5ms
.050.4.X.Y.Z	50	400 (-40%+15%)	3P3W ; 3P4W	Air 75L/sec	<5ms
.063.5.X.Y.Z	63	480 (-20%+15%)	3P3W ; 3P4W	Air 359L/sec	<5ms
.050.6.X.Y.Z	50	600 (-30%+15%)	3P3W ; 3P4W	Air 359L/sec	<5ms
.075.5.X.Y.Z	75	480 (-20%+15%)	3P3W ; 3P4W	Air 359L/sec	<5ms
.075.6.X.Y.Z	75	600 (-30%+15%)	3P3W ; 3P4W	Air 359L/sec	<5ms
.090.6.X.Y.Z	90	600 (-30%+15%)	3P3W ; 3P4W	Air 359L/sec	<5ms
.100.4.X.Y.Z	100	400 (-40%+15%)	3P3W ; 3P4W	Air 300L/sec	<5ms

X = power grid structure Y = mounting type Z = HMI display

**MECHANICAL DIMENSIONS mm**

FINSVG	Rack mounted									Wall mounted							Weight Kg.
	A	B	C	F	G	I	L	N	T	H	J	E	P	Q	M	R	
.030.4.X.Y.Z	540	190	555	510	540	524	105	42.5	500	560	536	10	360	500	191	510	30
.040.5.X.Y.Z	544	250	655	590	640	526	140	55	520	665	638	10	400	505	253	590	35
.050.4.X.Y.Z	540	190	555	510	540	524	105	42.5	500	560	536	10	360	500	191	510	48
.063.5.X.Y.Z	544	250	655	590	640	526	140	55	520	665	638	10	400	505	253	590	48
.050.6.X.Y.Z	544	250	655	590	640	526	140	55	520	665	638	10	400	505	253	590	50
.075.5.X.Y.Z	544	250	655	590	640	526	140	55	520	665	638	10	400	505	253	590	55
.075.6.X.Y.Z	544	250	655	590	640	526	140	55	520	665	638	10	400	505	253	590	66
.090.6.X.Y.Z	544	250	655	590	640	526	140	55	520	665	638	10	400	505	253	590	67
.100.4.3F.Y.Z	540	269	550	470	520	521	180	44.5	500	557	530	10	400	505	286	478	67
.100.4.4F.Y.Z	540	269	550	470	520	521	180	44.5	500	553	518	10	400	505	271	520	67

**RACK MOUNTED**

**WALL MOUNTED**
