

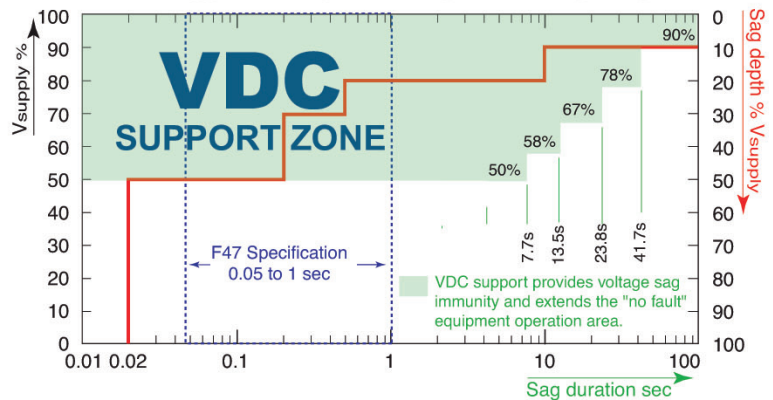
# Voltage Dip Compensators (VDC)

**Increase productivity at your facility by preventing momentary voltage sags**



**Losses incurred from power quality disturbances far outweigh the cost of installing a VDC.**

**VDC support zone protects against Voltage Sags**



## Selection Guide – VDC and DPI

	Sag Support	Interruption Support	Batteryless	Single Phase	Three Phase	Voltage Range	Power Range
<b>VDC</b>	✓		✓	✓	✓	120-240	250VA - 5kVA
<b>DPI*</b>	✓	✓	✓	✓		120-240	250VA - 5kVA

\*DPI = Voltage Dip Proof Inverter - Protection against voltage sags AND interruptions.

## FEATURES:

- ✓ Protects against voltage sags down to 50% of nominal with extended ride through up to 1 minute
- ✓ Batteryless, therefore no replacement and maintenance costs or hazardous waste
- ✓ Sinusoidal output with voltage regulation within +/- 10% of nominal supply voltage
- ✓ Compact and easy to retrofit
- ✓ Can be used in single phase and three phase 4 wire systems
- ✓ Exceeds the specifications of the Semiconductor SEMI F47 standard for voltage sag immunity

## APPLICATIONS:

- ✓ Control Contactors and Relays
- ✓ Motor Starter Circuits
- ✓ Continuous Factory Control processes
- ✓ Semiconductor equipment processes
- ✓ Instrumentation Systems
- ✓ Industrial PLC Controls
- ✓ Plastic Extrusion processes
- ✓ Beverage and Bottling processes
- ✓ Material handling systems



Call Toll Free: 1-877-PQ-SOLNS (1-877-777-6567) or 303-805-5252 email: [info@measurlogic.com](mailto:info@measurlogic.com)

**MEASURLOGIC**

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# Voltage Dip Compensators (VDC)

## Technical Specifications



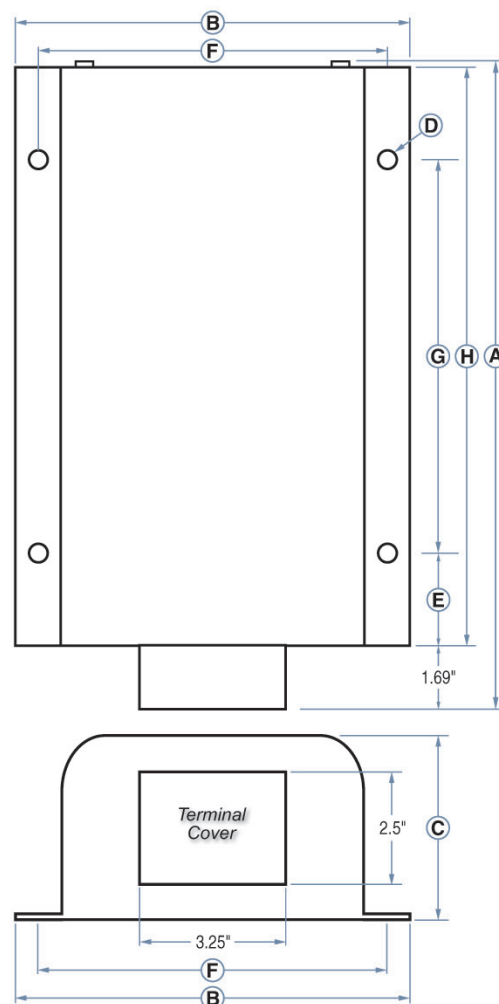
	120V		208V*	
MODEL	VDC S4T1K120	VDC L4T3K120	VDC S4T1K208	VDC L4T5K208

AC INPUT SUPPLY						
Single phase supply voltage:	120V			208V		
Maximum input voltage:				+10%		
Minimum input voltage:	-50%		-50%		-50%	
Full load current:	8.5A		24A		4.8A	24A
Maximum surge current for 3 cycles duration:	550A					
AC OUTPUT						
Nominal output voltage:	120V		120V		208V	208V
Voltage fluctuations over full operating range:	± 10%					
Nominal load current:	8.5A		24A		4.8A	24A
Power factor range:	cos Φ from 1 to 0					
Wave shape:	Sinusoidal					
Nominal load (VA):	1000		3000		1000	5000
Maximum up-time (sec):						
Timer Control:	0.05 to 3.15s in 0.05s steps					
I <sup>2</sup> T Control:	Provides extended ride-through time (see user manual for details)					
Overload current Limit (A RMS):	12A		35A		12A	28A
Short circuit current Limit (A RMS):	30A		75A		35A	75A
INDICATORS						
System OK:	green LED					
Compensator running:	red LED					
TEMPERATURE						
Maximum ambient working temperature:	113°F					
CUBICLE						
Construction:	Extruded Aluminum					
Mass: (lbs.)	11		20		11	20
CONNECTION						
Cable, Copper panel wire:	14 AWG		10 AWG		14 AWG	10 AWG
Screw terminal torque:	15.6 lb-in					
LISTINGS						
Underwriters Laboratories Inc:	UL Listed – File # E252683					
STANDARDS SUPPORTED						
SEMI F47:	Semiconductor processing equipment voltage sag immunity.					

\* other voltage ranges available

## Dimensions

120V	A	B	C	D	E	F	G	H
VDC S4T1K120	11.02	5.9	4.33	0.24	1.18	5.5	6.97	9.33
VDC L4T3K120	11.54	12.24	6.38	0.31	1.57	11.65	6.69	9.84
208V	A	B	C	D	E	F	G	H
VDC S4T1K208	11.02	5.9	4.33	0.24	1.18	5.5	6.97	9.33
VDC L4T5K208	11.54	12.24	6.38	0.31	1.57	11.65	6.69	9.84



Distributor:

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