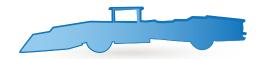
Scoop Traction and Pump Systems



VF Series Battery VFD Systems

The VF Series Drive Systems are for large or medium sized motors used in scoops that utilize a lead acid battery system. Two options are available:

- VF1 Series is for 128V DC systems.
- VF2 Series is for 240V DC systems.

Features

- · Easily retrofitted into current equipment
- · Failsafe motor rotation will stop if drive fails
- · Low maintenance with AC motor
- · Uses lead-acid batteries

Turbo Torque™ Traction Drive

- Better stall torque and higher top speed than the equivalent 36kW (50HP) DC drive
- · Speed governor
- · Effective regenerative braking: minimizes the use of mechanical brakes

Whisper Pump™On-Demand Hydraulic Pump Drive

- · Reduced noise in pump idle mode, from 80 to 70 decibels
- · Significant battery energy reduction during idle
- · Smoother steering at pump idle

Available parts for system may include pre-charge/tram drive, pre-charge/pump drive, master control module, light supply, diagnostic display, foot switch, handheld programmer (for diagnostics and changing drive parameters), battery fuel gauge, radio remote control, motors with encoders for traction and pumps, and all cables. See your Saminco representative for a system designed to your vehicle specifications.



Mounted in explosion proof box with VF-1200 tram drive.

Battery Management System

Able to monitor battery levels from display "Low Battery warning allows for:

- Automatic slow down of some functions
- Torque retained, speed reduced to conserve energy
- Enables vehicles limited time to return to power center for recharging.

Q750 DC/DC System

The Q750 is a compact, digital DC/DC traction drive available for single motor or dual motor operation.

Features

- · Microprocessor based drive system
- · Automatic motor speed-limiting
- · Compact enclosure houses all power control devices, capacitor bank and soft start devices.
- Torque control mode provides superb traction and acceleration.
- · Rugged, short circuit proof power circuit provides excellent long term reliability.
- · Comprehensive display housed in explosion proof headlight enclosure.
- Uses the same handheld programmer and user interface as our JD400, Q800 and VFD drive systems.
- Regenerative braking provides smooth, powerful braking down to almost standstill. This
 feature greatly prolongs life of mechanical brakes.
- Over-current protection: Magnetic circuit breaker in DC supply (customer supplied) instantaneous cut-out if motor current exceeds 2500A for 100HP.

Available parts for system may include single or dual motor controller, interface box, light supply, diagnostic display, foot switch, handheld programmer (for diagnostics and changing drive parameters), and all cables. See your Saminco representative for a system designed to your vehicle specifications.



Q750 system mounted in explosion proof box with swinging panel closed.



Specifications - VF Series B	Sattery VFD System					
	VF-1200 Tram Drive For large motors		VF-700 Tram Drive For medium motors		VF-400 Pump Drive For pump motor	
Electrical						
Specifications	Input	Output	Input	Output	Input	Output
For 128V Systems	VF1-1200 (A800682)		VF1-700 (A801018)		VF1-400 (A800679)	
Rated Power @ Rated Volts	62kW @ 128V DC	58kW @ 80V AC	30kW @ 128V DC	39kVA @ 80V AC	23kW @ 128V DC	21kW @ 70V AC
Frequency Range	DC	0 - 125 Hz	DC	0 - 120 Hz	DC	0 - 125 Hz
Voltage Range	100 -150V DC	0 - 100V AC	80 - 150V DC	0 to V in x 0.7	100 -150V DC	1 - 100V AC
Amps @ Rated Power	485A	495A (1200A peak)	235A	285A (700A peak)	180A	200A (400A peak)
For 240V Systems	VF2-1200 (A800782)		VF2-700 (A801019)		VF2-400 (A800781)	
Rated Power @ Rated Volts	105kW @ 240V	100kW @ 138V	56kW @ 240V AC	78kVA @ 160V	43kW @ 240V	41kW @ 138V
Frequency Range	DC	0 - 125 Hz	DC	0 - 120 Hz	DC	0 - 125 Hz
Voltage Range	160 - 300V	0 - 170V AC	160 - 300V	0 to V in x 0.7	160 - 300V	0 - 170V
Amps @ Rated Power	440A	500A (1200A peak)	235A	285A	180A	200A (400A peak)
Dimensions	VF-1200 Tramp Drive		VF-700 Tram Drive		VF-400 Pump Drive	
Height	230mm (9")		249mm (9.8")		230mm (9")	The state of the s
Width	604mm (23.8")		330mm (13")		199mm (7.8")	
Depth	363mm (14.3")	, KK	347mm (13.7")		354mm (13.9")	
Weight	45 kg (99 lbs)		26.8 kg (59 lbs)		14.5 kg (32 lbs)	
Environmental	VF-Series Systems					
Ambient Operating Temperature			-10°C (no frost) to +	50°C (14°F to 122°F)		
Storage Temperature			-40°C to +60°C (-40	°F to 140°F)		
Relative Humidity			<90% no condensation	on		
Altitude	1000 meters (3300 feet) - de-rate above 3000 meters					

Specifications - Q750 System										
	Q750 (A800355-3)		Q750 (A800357-3)*							
Electrical	Single	e Drive	Dual Drive							
Specifications	Input	Output	Input	Output						
Rated Power @ Rated Volts	44kW @120V	42kW @ 120V	87kW @ 120V	84kW @ 120V						

Frequency Range DC DC DC DC 80 - 160VDC 0 - 98% V in 80 - 160VDC 0 - 98% V in Voltage Range 370A @ 44kW 350A @ 42kW 2 x 350A Amps @ Rated 725A @ 87kW (2000Ā peak) Power @84kW

*NOTE: With J9002-201 address plug on MCM CN2 connector, Q750 parameter will automatically change to dual motor mode

Dimensions		
Height	230mm (9.1")	1
Width	705mm (27.8")	
Depth	290mm (11.5")	
Weight	54.4 kg (120 lbs)	
Environmental		
Ambient Operating Ter	nperature -10°C (no	o frost) to +50°C (1

FLORIDA

Headquarters



3300 Feet (1000 meters) - De-Rate above 3000 meters.

WEST VIRGINIA

Service Branch

517 Virginia Ave.

Huntington, WV 25701

Ph: +1 304-523-4700

FAX: +1 304-523-4039

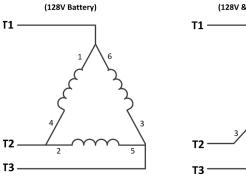
Saminco Cool-Torque Motors (for the VFD Systems)

Saminco Cool-Torque Motors are available:

80VAC Connection

- AC input
- Air-cooled
- 80V AC or 140V AC available
- All motors are dual voltage based on wiring configuration
- Internal encoders give Closed Loop Control down to zero
- Low current draw of motor (Low AMPS) will extend life of motor
- Torque and speed-sharing between motors with greater starting torque.

Dual Voltage Traction Motors for Battery Vehicles (Delta or Wye connections)



140VAC Connection (128V & 240V Battery) Web: www.samincoinc.com

Ph: +1 239-561-1561

10030 Amberwood Rd.

Ft. Myers, FL 33913

Ph: +1 239-561-1561

FAX: +1 239-561-1502

Email: sales@samincoinc.com

COLORADO Service Branch Cedaredge, CO 81141 Ph: +1 970-623-0000

SOUTH CAROLINA Service Branch Anderson, SC Ph: +1 864-314-9046 **International Locations:** Boksburg, South Africa Australia India **Poland**



Altitude