

SUBDRIVE DUPLEX ALTERNATOR

Motors
Drives
Controls
Protection

Balanced Workload for Parallel Systems

Franklin Electric's SubDrive Alternator allows a water system to alternate between two parallel pumps controlled by separate SubDrives. The user-selected switching interval balances the run time of each pump system to evenly disperse the workload. The SubDrive Duplex Alternator is ideal for applications requiring redundant systems.

For high demand situations, the Alternator works on a lead-lag principle. When demand exceeds the capacity of one pumping system, the other comes online to supplement production.

SubDrive Alternator provides:

- Ability to work with any two FE SubDrives, MonoDrives or QuickPAKs (see reverse)
- Push-button design to select switching interval, 1 - 24 hours or manual
- Indicator lights to show time settings, status and faults for each pump
- Safe operation using a 120VAC/12VAC outdoor rating and low voltage wiring connection
- Fail/safe design (system still produces water if Alternator is taken offline)
- Simple installation
- Fault detection
- Optional alarm contacts

NEMA 4 enclosure protects against:

- Rain, sleet, snow, and external ice
- Splashing or hose-directed water
- Falling dirt or windblown dust

Applications:

- Schools
- Restaurants
- Hospitals
- Car washes
- Small municipal water systems



Models

Use with these controllers (any combination):

Model	Description
5870203380	SubDrive75 NEMA 1
5870203384	SubDrive75 NEMA 4
5870204100	SubDrive100 NEMA 1
5870204101	SubDrive100 NEMA 4
5870204150	SubDrive150 NEMA 1
5870204154	SubDrive150 NEMA 4
5870206300	SubDrive300 NEMA 4
5870203223	SubDrive 2W
5870203110	MonoDrive NEMA 1
5870203114	MonoDrive NEMA 4
5870204110	MonoDriveXT NEMA 1
5870204114	MonoDriveXT NEMA 4
90401101	Inline 1100

Specifications

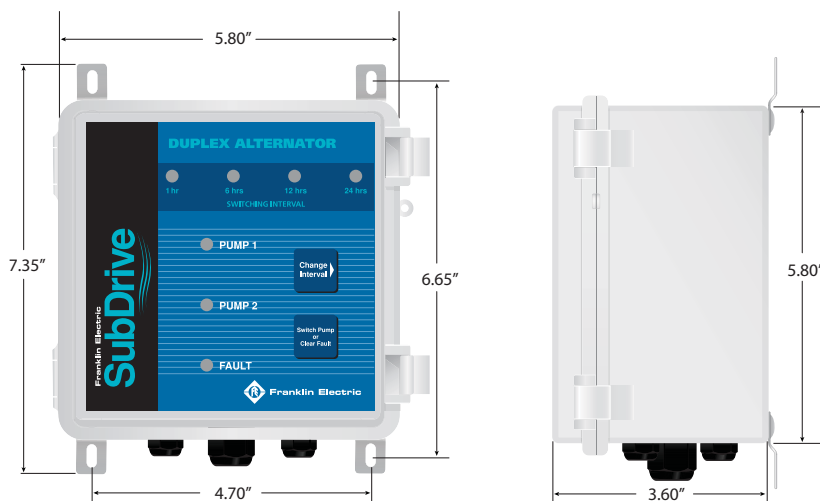
SubDrive Duplex Alternator – Model number 5850012000

Power Source to Indoor/Outdoor Transformer	Voltage	115 VAC
	Frequency	60 Hz
Power to Controller	Voltage	12 VAC
	Frequency	60 Hz
	Power*	1.4 Watts
Pressure Setting**	Factory Preset	50 psi
	Adjustment Range	25-80 psi
Operating Conditions	Indoor/Outdoor	NEMA 4 enclosure
	Temperature	-13 to 125 °F (-25 to 51 °C)
	Relative Humidity	0-100%, non-condensing or condensing
Controller Size (approximate)	Outer Dimensions	5.8" H x 5.8" W x 3.6" D
	Weight	1.3 lbs (0.59 kg)

* Power is on the secondary side of transformer.

** Pressure sensors must be set at least 3 psi apart.

Mounting Dimensions



Franklin Electric

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