SUBDRIVE
DUPLEX ALTERNATOR

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
- 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

IP56-(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
- Irrigation

System Solutions

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Models

Use with these controllers (any combination):

Model	Description
5870203380	SubDrive75 IP56-NEMA 1
5870204154	SubDrive150 IP56-NEMA 4
5870206300	SubDrive300 IP56-NEMA 4

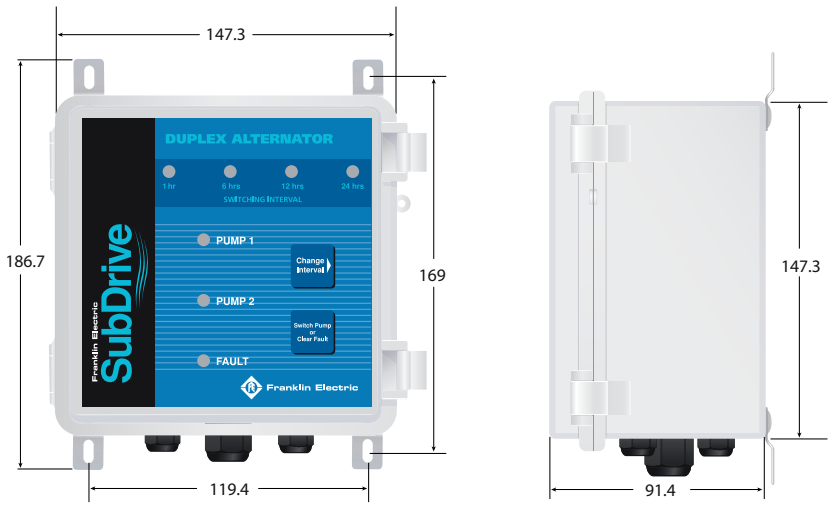
Specifications

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	3.44 bar (50 psi)
	Adjustment Range	1.72 - 5.51 bar (25-80 psi)
Operating Conditions	Indoor/Outdoor	IP56-NEMA 4 enclosure
	Temperature	-25 to 51°C (-13 to 125°F)
	Relative Humidity	0-100%, non-condensing or condensing
Controller Size (approximate)	Outer Dimensions	150 H x 150 W x 92 D
	Weight	0.59 kg

* Power is on the secondary side of transformer.
** Pressure sensors must be set at least 3 psi apart.
All dimensions in millimetres.

Mounting Dimensions



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