

Presenters



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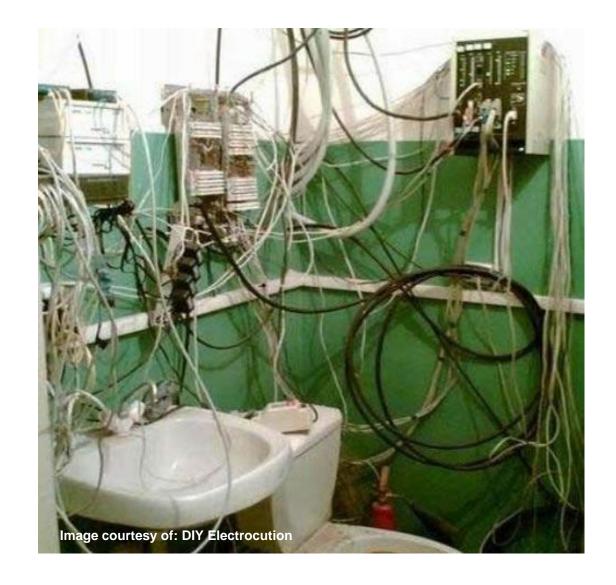


Agenda

- Overview of the rush to convert manual to sensor faucets
- 2. Site specific power supply considerations
- 3. Faucet power supply options listed from good to better to best
- Sloan sensor faucet models and power equipment for them

We will not be covering:

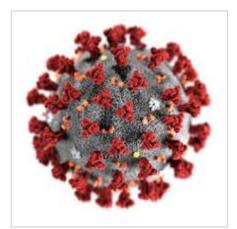
- Detailed electrical concepts
- International plug and power options
- Very uncommon product configurations





Conversion from Manual to Sensor

What are the drivers and urgency?











The CAUSE



The SOLUTION







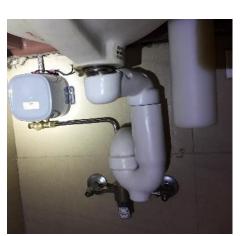
Site-specific Issues to Consider before Selecting A Faucet Power Supply



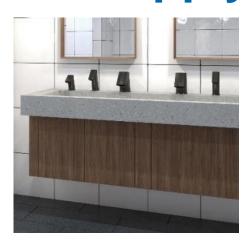
Existing power supply



Behind the wall "chase"



No "chase"



Enclosure



No enclosure or shroud



Frequency of use



Potential for vandalism



No power supply

Webinar

Commercial

Restroom

Products and

ADA Compliance

Organizational Issues to Consider before Selecting A Faucet Power Supply



Existing maintenance routines and resources



Commitment to sustainability



Project budget



Project deadline





Ranking Faucet Power Supplies

Listed from least to most desired - if site conditions permit

Good Better Best













Power Supply Type	Battery	Solar or Turbine Energy Harvesting with Battery Back-up	Hardwired - Adapter Plug with Battery Back-up	Hardwired - Wall Transformer with Battery Back-up
Est. number of activations	288,000 (8,000 activations per month for 36 months)	Up to 500,000 (site-specific variable dependent)	Unlimited	Unlimited
Est. change interval	3 years (site-specific variable dependent)	Up to 8 years (site-specific variable dependent)	Up to 10 years (battery shelf life dependent)	Up to 10 years (battery shelf life dependent)
"Daisy-chain" capable	No	No	Yes	Yes
Sustainability level	Adequate	Very Good	Excellent	Excellent



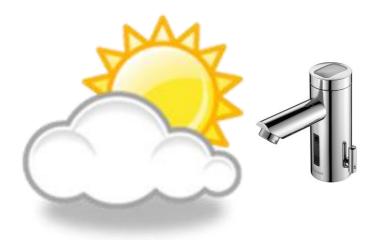
Solar vs Turbine

Webinar Battery Truths and Myths

when to select one or the other as your hybrid power source

Solar

- Passive technology no moving parts
- Not in the water stream
- Fixed energy harvesting capacity
- Built into the spouts



Turbine

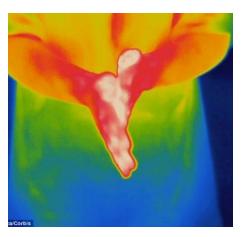
- Active Technology in the water stream
- More use = more power
- Built into the spout (EFX180 and EFX280 models), all others in the below deck controls





Options for Touch-free Sensing Types





Infrared Sensor

- Senses the reflection of infrared light when a valid "target" is within range
- Range can be adjusted





Capacitance (Proximity) Sensor

- Senses the electrical field surrounding a valid "target" when within range
- Range can be adjusted
- Cannot be used on metal sinks
- Can be battery operated
- Requires special plug adapter





Sloan SF Faucets

SFP-40-A Below-deck Control Box











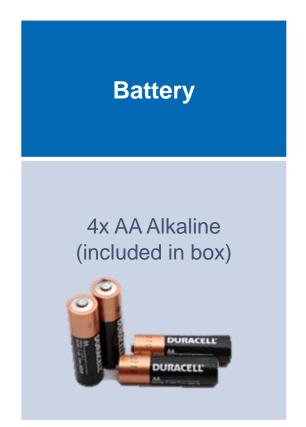
Hardwired/Plug Adapter Battery-powered	SF-2100 SF-2150	SF-2200 SF-2250	SF-2300 SF-2350	SF-2400 SF-2450			
Control box	SFP-40-A (Battery and	SFP-40-A (Battery and hardwired with battery back-up)					
Battery type	4x AA Alkaline						
Adapter plug	· · · · · · · · · · · · · · · · · · ·	C 60Hz in/6 VDC out) – inclu 240VAC 50/60 Hz in/6 VDC					
Box/wall transformer	NA						
Hybrid energy harvesting options	NA						
Gang adapter kit	SFP-35-A Gang adapte	r kit including connections f	or up to six faucets – c	order separate			
Link to installation and maintenance guide	SF FAUCETS SFP-35-A Gang Adapte	<u>r Kit</u>					

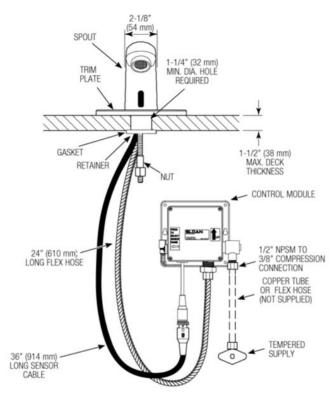


Sloan SF Faucets – Battery-powered









Battery-powered SF Faucet model numbers end with "50"

All SF Faucets can be either battery or hardwired (with battery back-up)



Sloan SF Faucets – Plug Adapter (Single Unit)



Faucet Spout



SFP-40-A Below-deck Control Box Hardwired Plug Adapter

SFP-6
110VAC 60Hz in/6 VDC out

(included in box)

Battery Back-up

4x AA Alkaline
(included in box)



Plug adapter-powered SF Faucet model numbers end with "00"



Sloan SF Faucets – Plug Adapter (Multiple Units)



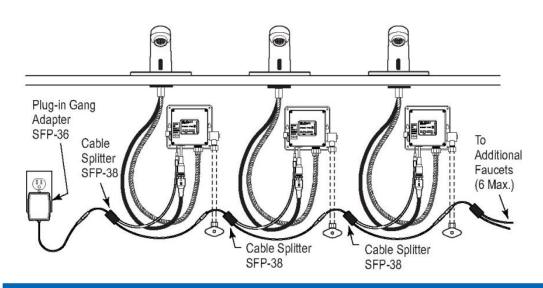




One SFP-36 plug adapter can power up to eight faucets



Sloan SF Faucets – SFP-35-A Gang Adapter Kit



Sloan SFP-35-A Gang Adapter Kit Contents

1x – SFP-36 Plug adapter 100-240VAC 50/60Hz in/6VDC out	
1x - SFP-37 Extension cable - 51 in/130 cm	
5x – SFP-38 Splitter cables	



One SFP-36 plug adapter can power up to eight faucets.

The SFP-35-A kit includes connections for up to six.





Sloan EBF & ETF (Optima) Faucets

EFP-39 Below-deck Control Box













Hardwired/Plug Adapter Battery-powered	ETF-80 EBF-85	ETF-880 EBF-187	ETF-600 EBF-650	ETF-610 EBF-615	ETF-660 EBF-665
Control box	EFP-39-A (no turk	oine), EFP-40-A (0.5	gpm turbine), EFP	-11-A (1.5 gpm turbir	ne)
Battery type ("BAT" models)	4x AA Alkaline				
Adapter plug ("PLG" models)	Single - SFP-6 (110VAC 60Hz in/6VDC out) – included in all plug adapter models Multiple - SFP-36 (100-240VAC 50/60Hz in/6VDC out) - up to six faucets – order separate				
Box / wall transformer ("BOX" models)	EL-248-40 (120VAC 50/60Hz in/24VAC, 40VA out) – included in all box/wall transformer models. Powers up to three faucets			ransformer	
Hybrid energy harvesting options ("TUR" models)	EFP-40-A (0.5 gpm turbine) or EFP-11-A (1.5 gpm turbine) control boxes – included in all turbine powered with battery back up models			cluded in all	
Gang adapter kit	SFP-35-A Gang adapter kit including connections for up to six faucets – order separate			r separate	
Link to installation and maintenance guide	EBF and ETF (Optima) Faucets SF-35-A Gang Adapter Kit				



Sloan EBF & ETF (Optima) Faucets

EFP-39-A Below-deck Control Box











Hardwired/Plug Adapter Battery-powered	ETF-500 EBF-550	ETF-700 EBF-750	ETF-770 EBF-775	ETF-800 EBF-850	
Control box	EFP-39-A (no turbine), E	FP-40-A (0.5 gpm turbi	ne), EFP-11-A (1.5 gp	om turbine)	
Battery type ("BAT" models)	4x AA Alkaline				
Adapter plug ("PLG" models)	Single - SFP-6 (110VAC 60Hz in/6VDC out) – included in all plug adapter models Multiple - SFP-36 (100-240VAC 50/60Hz in/6VDC out) - up to six faucets – order separate				
Box / wall transformer ("BOX" models)	EL-248-40 (120VAC 50/60Hz in/24VAC, 40 VA out) – included in all box/wall transformer models. Powers up to three faucets				
Hybrid energy harvesting options ("TUR" models)	'EFP-40-A (0.5 gpm turbine) or EFP-11-A (1.5 gpm turbine) control boxes – included in all turbine powered with battery back up models			xes – included in all	
Gang adapter kit	SFP-35-A Gang adapter kit including connections for up to six faucets – order separate				
Link to installation and maintenance guide	EBF and ETF (Optima) F SF-35-A Gang Adapter k				



Sloan EBF Faucets – Battery Powered "BAT"



Faucet Spout



EFP-39-A Below-deck Control Box (no turbine)





All EBF/ETF Faucets can be either battery or hardwired (with battery back-up)

All EBF/ETF Faucets can use 24VAC or 6VDC power



Sloan EBF Faucets – Turbine with Battery Back-up "TUR"



Faucet Spout

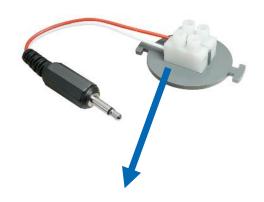




Sloan EBF Turbine faucets with battery back-up can be connected to electrical supplies to be "double back-up" units



Sloan EBF Faucets – EFP-98 Power Harness



EFP-98 Power Harness



Any EBF/ETF
Below-deck
Control Box

Any Sloan EBF/ETF (Optima) Faucet can function on 24VAC or 6VDC power supplies

- Many "legacy" sensor faucet installations have 24VAC power supplies, because many years ago sensor faucets were less efficient and required 24VAC power
- Today's Sloan sensor faucets require only 6VDC to power the solenoid
- Every Sloan EBF (Optima) Faucet comes with an EFP-98 power harness in the box to facilitate connections to legacy 24VAC power supplies or to any 24VAC transformer
- Installers can use any common 18-gauge electrical cord to connect them and daisy chain faucets together
- When hardwire connected, the batteries become back-up

The EFP-98 power harness is included with every EBF battery powered faucet to dramatically increase installation and power supply flexibility



Sloan ETF Faucets – Plug Adapter (Single Unit)



Faucet Spout





EFP-39-A Below-deck Control Box (no turbine)





Battery Back-up



EBF/ETF "Optima" Faucets use the same adapter plugs and gang adapter kits as the SF Faucets



Sloan ETF Faucets – Plug Adapter (Multiple Units)



Adapter Plug

Faucet Spout





EFP-39-A Below-deck **Control Box** (no turbine)

Hardwired Plug Adapter

SFP-36

100-240VAC 50/60Hz in/6VDC out (sold separately or as part of the SFP-35-A gang adapter kit)



Battery Back-up

4x AA Alkaline (included in box)



EBF/ETF "Optima" Faucets use the same adapter plugs and gang adapter kits as the SF Faucets



Sloan ETF Faucets – SFP-35-A Gang Adapter Kit

Sloan SFP-35A Gang Adapter Kit Contents 1x - SFP-36 Plug adapter 100-240VAC 50/60Hz in/6VDC out 1x - SFP-37 Extension cable - 51 in. / 130 cm 5x - SFP-38 Splitter cables



One SFP-36 plug adapter can power up to six faucets.

The SFP-35-A kit includes connections for up to six.



Sloan ETF Faucets – Box Transformer (Single or Multiple Units) "BOX"

Box



Faucet Spout



Power Harness

Battery Back-up

EL-248-40 **EFP-98 Power** 120VAC 50/60Hz in/ harness 24VAC, 40VA out (included in box) (included in box)



4x AA Alkaline (included in box)







EFP-39-A Below-deck **Control Box** (no turbine)

Order one ETF "BOX" model with an EL-248-40 box transformer included and two additional EBF "BAT" models to connect up to three EBF/ETF Faucets using the EFP-98 power harnesses and common electrical wire to daisy chain the units together



Shown: EAF-250 Battery-powered Faucet and matching ESD-2000 Soap Dispenser with Brushed Nickel PVD Finish SLOAN EAF Family SLOAN. **Proprietary and Confidential** 26

Sloan EAF Faucets













Plug Adapter Battery-powered	EAF-100 EAF-150	EAF-200 EAF-250	EAF-225	EAF-275	EAF-350	EAF-700 EAF-750
Control box	NA	NA	NA	NA	NA	NA
Battery type	2CR5 Lithium	CRP2 Lithium	NA	CRP2 Lithium	CRP2 Lithium	CRP2 Lithium
Adapter plug	EAF-11	EAF-11	EAF-11	NA	NA	EAF-11
Box/wall transformer	EAF-37	EAF-37	NA	NA	NA	EAF-37
Hybrid energy harvesting	NA	NA	NA	Solar	NA	NA
Gang adapter kit	Components sold separately	Components sold separately	NA	NA	NA	Components sold separately
Link to installation instructions	EAF-100 EAF-150	EAF-200 EAF-250	EAF-225	EAF-275	EAF-350	EAF-700 EAF-750

Unlike all other Sloan faucet families, EAF models can be either hardwired or battery powered – but not both



Sloan EAF Faucets – Battery-powered



Faucet Spout





Sloan EAF Faucets – Plug Adapter (Single Unit)



Faucet Spout

Hardwired Plug Adapter





Sloan EAF Faucets – Box Transformer (Single Unit)



Box Transformer

EAF-37 110-240VAC 50/60hZ 88mA/6VDC Plastic box



EAF-70-A

110-240VAC 50/60hZ 88mA/6VDC CSA certified for use in Canada Metal box





Sloan EAF Faucets – Gang Adapter Components for Use with Adapter Plugs or Box Transformers

Gang Adapter Components for EAF Faucets					
Adapter plug	EAF-11 110-240VAC 50/60Hz in/6VDC out Powers up to six units				
Box transformer (plastic box)	EAF-37 110-240VAC 50/60Hz 88mA/6VDC Powers up to six units				
Box transformer, CSA certified (metal box)	EAF-70-A 110-240VAC 50/60Hz 88mA/6VDC Powers up to six units	60			
Extension cables	EAF-24-A Extension cable, 12in/.3m EAF-25-A Extension cable, 48in/1.2m EAF-17-A Extension cable, 120in/3m				
Power splitter	EAF-44-A Power splitter				





Sloan EFX (BASYS) Infrared Faucets











	EFX-1XX Series "High"	EFX-2XX Series "Mid"	EFX-3XX Series "Low"	EFX-6XX Series "Low IB"	EFX-8XX Series "Wall"
Hardwired Battery Powered Solar Cell Solar + LCD (Guided Handwashing) Turbine	EFX-100 EFX-150 EFX-175 EFX-177 EFX-180	EFX-200 EFX-250 EFX-275 EFX-277 EFX-280	EFX-300 EFX-350 EFX-375 EFX-377	EFX-600 EFX-650 EFX-675 EFX-677	EFX-800 EFX-850
Control box	NA				
Battery type	4x AA Alkaline				1X CRP2 Lithium
Adapter plug	EAF-11 110-240VAC	EAF-11 110-240VAC 50/60Hz in/6VDC out			
Box/wall transformer	EAF-37 110-240VAC	EAF-37 110-240VAC 50/60Hz in/6 VDC out			
Hybrid energy harvesting	Solar, Turbine				NA
Gang adapter kit	Components sold separately			NA	
Link to installation instructions	EFX-1XX Series	EFX-8XX			



Sloan EFX (BASYS) Capacitance Faucets

Below-deck Control Box









	EFX-3XX Series "Low"	EFX-6XX Series "Low IB"	
Hardwired Battery Powered Solar Cell Solar + LCD (Guided Handwashing)	EFX-300 EFX-350	EFX-600 EFX-650	
Turbine	EFX-380	EFX-680	
Control box	01	X-1004-A 0.5 gpm, turbine X-1006-A 1.5 gpm, turbine	
Battery type	4x AA Alkaline		
Adapter plug	EFX-31 120VAC/6.75VDC		
Box/wall transformer	NA		
Hybrid energy harvesting	Turbine Option (EFX-3XX and EFX-6XX capacitance units use below-deck control boxes)		
Gang adapter kit	Components sold separately		
Link to installation instructions	EFX-3XX Series CAP	EFX-6XX Series CAP	



Sloan EFX Faucets – Battery-powered



Faucet Spout





Sloan EFX Faucets – Plug Adapter (Single Unit)



Faucet Spout

Hardwired Plug
Adapter
(IR faucets)

Hardwired Plug
Adapter
(Capacitance
faucets)

EAF-11 110-240VAC 50/60Hz in/6VDC out (Included in box)



EFX-31

110-240VAC 50/60Hz in/6.75VDC out (Included in box)



Battery Back-up

4x AA Alkaline (Included in box)



EFX-1XX Series "High" EFX-2XX Series "Mid" EFX-3XX Series "Low" EFX-6XX Series "Low IB" 1x CRP2 Lithium (Included in faucet)



EFX8XX Series "Wall"



Sloan EFX Faucets – Box Transformer (Single Unit)



Box Transformer (IR faucets only)

EAF-37 110-240VAC 50/60Hz 88mA/6VDC Plastic box



EAF-70A
110-240VAC 50/60Hz 88mA/6VDC
CSA certified for use in Canada
Metal box





Sloan EFX Faucets – Gang Adapter Components for Use with Adapter Plugs or Box Transformers

Gang Adapter Components for EFX Faucets					
Adapter plug, IR faucets	EAF-11 110-240VAC 50/60Hz in/6VDC out Powers up to six units				
Adapter plug, Capacitance faucets	EFX-31 110-240VAC 50/60Hz in/6VDC out Powers up to six units				
Box transformer, IR faucets only Plastic box	EAF-37 110-240VAC 50/60Hz 88mA/6VDC Powers up to six units				
Box transformer, IR faucets only, CSA cert. Metal box	EAF-70-A 110-240VAC 50/60Hz 88mA/6VDC Powers up to six units	60			
Extension cables	EAF24-A Extension cable, 12in/.3m EAF25-A Extension cable, 48in/1.2m EAF17-A Extension cable, 120in/3m				
Power splitter	EAF-23-A Power splitter	P)			



Summary

The power supply you select will have a huge impact upon your facility for years

- Maintenance burdens
- Service time commitments
- Labor expenses
- Sustainability impact

Sloan strongly recommends hardwired faucets

If not hardwired, Sloan strongly recommends selecting a hybrid energy harvesting option

With more sensor faucet designs and configurations than any other brand, Sloan is the best option for reliable, dependable and compliant faucets for your facility regardless of the application

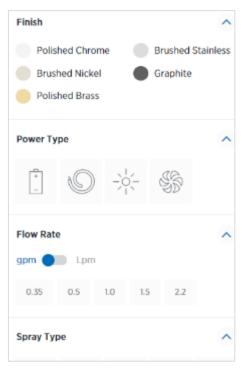


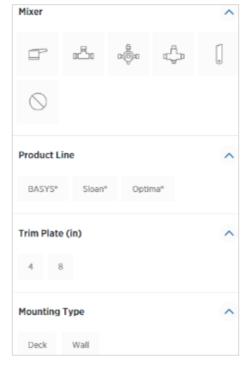


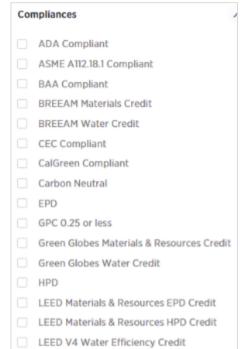
Sloan Faucet Finder

Browse automatic sensor faucets by style, features, options, or certifications with the <u>Sloan</u> <u>Faucet Finder</u>. Find your faucet, and easily drill down to individual spec sheets.











Find your local Sloan representative for more information

Sloan Rep Locator tool

- Local code knowledge
- Familiarity with existing sites
- Product knowledge
- Available for onsite consultation

Sloan Customer Care Center

Phone: 800.982.5839

Hours: 7:00 AM - 5:00 PM (CST) Monday - Friday

customer.service@sloan.com

Sloan Technical Support

P: 888.756.2614 F: 800.737.3061

techsupport@sloan.com









Upcoming Sloan Training Webinars



July 16th

Sustainability and Sloan Commercial Restroom Products



July 30th

WELL Building Standard and Sloan Commercial Restroom Products



Training Comments, Questions, or Suggestions?

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