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Surge Protective Devices (SPDs) and Easy UPS 3S

Plug-on Neutral QO and Homeline Load Center Surge Protective

QO, NQ, and Homeline Load Center Surge Protective Devices

Internally Mounted—New Construction/Factory Assembled

Residential SPDs

Overview

HWE240B

FAS120AC

Specialty SPDs

IESE Series Filter

ICSE Series Filter

Signal SPD

Specialty Low Voltage SPDs

SSE Signal Protection

Square D™ Easy UPS 3S

Modular Single Line SPD

Square D Easy UPS 3S (UL 208 V)

Internally Mounted SPDs

OEM/Assembler Kits

Stand Alone Enclosed SPDs

Whole Home Surge Protective Devices

Internally Mounted SPDs—Field Installable

Surgelogic Surgeloc for NQ Panelboards

External Mount Surge Protective Devices

SDSA1175, SDSA 3-Phase, and SPDE SPDs

Industrial Control Panel SPD and Series Filters





Square D™ QO / HOM PoN SPDs

HEPD Series



Surgelogic™ Type IMA





Surgelogic™ Type EMA

Surgelogic™ Type EMB



Surgelogic[™] Type SDSA







HEPD Whole House devices are designed to deliver superior AC surge protection for the entire AC power system in a home. HEPDs are compact in size and are designed to protect AC wires in the home from surges that could affect home electronics and appliances not connected to surge strips.

cULus Listed to the latest UL 1449 standard, UL Type 1 SPD, CSA C22.2 No.-M1986. C233.1-87. Meets NEC2023 Section 215, 225, and 230 requirements.

- 120/240 Vac
- Max surge current ratings available: 25, 50, and 80 kA
- NEMA 4X rate for indoor or outdoor applications
- LFD status indicators
- Compatible with all brands of load centers
- Flush Mount Kit sold separately see table below
- · UL Nominal Discharge Current rating of 10kA or higher

Table 6.1: HEPD Whole House Surge Protective Devices

Description	Surge Current Rating	Cat. No.
25 kA Home Electronic Protective Device	25 kA	HEPD25
Flush Mount Kit for HEPD25	_	HEPD25MKF
50 kA Home Electronic Protective Device	50 kA	HEPD50
80 kA Home Electronic Protective Device	80 kA	HEPD80
Flush Mount Kit for HEPD50 / HEPD80	_	HEPD58MKF

Plug-on Neutral QO and Homeline Load Center Surge Protective **Devices**

The industry's first exclusive Plug on Neutral (PoN) Surge Protective Device (SPD). Square D load center PoN SPDs are a simple and quick installation. It's as easy as snap, click, done. PoN SPDs are easier to install than a standard circuit breaker. No wires are needed for installation. The PoN SPD simply plugs on to the bus and neutral bar. The surge suppressors use two-pole spaces in a QO or Homeline load center.

US and Canadian UL Listed as Type 1 SPD to the UL 1449 standard. Complies with requirements of NEC Article 285, CSA 233.1-87, and CSA C22.2 No. 8-M1986 as appropriate. Meets NEC2023 Section 215, 225 and 230 requirements.

- Industry First: No wires or tools required for installation
- Installation Flexibility: Works on Plugon Neutral design QO or HOM load centers
- · Requires two pole spaces
- · LED indicates operational status
- 50 kA per phase surge current rating
- UL Nominal Discharge Current rating of



Description	Cat. No.
Plug on Neutral QO Surgebreaker	QO250PSPD
Plug on Neutral Homeline Surgebreaker	HOM250PSPD

For warranty information, see Schneider Home System Warranty Data Bulletin, 0102DB2301

QO, NQ, and Homeline Load Center Surge Protective Devices

Square D load center surge protective devices are easy to install plug-in units that install as quickly as a standard circuit breaker. The surge suppressors use two pole spaces in a QO or Homeline load center, or NQ panelboard.

US and Canadian UL Listed as Type 1 SPD to the UL 1449 standard. Complies with requirements of NEC Article 285, CSA 233.1-87, and CSA C22.2 No. 8-M1986 as appropriate. Meets NEC2023 Section 215, 225 and 230 requirements.

- QO2175SB for QO load centers. combination devices, and NQ panelboards
- HOM2175SB for Homeline load centers and combination devices
- · Requires two pole spaces
- LED indicates operational status
- Whole House Protection: 25 kA surge current capacity per phase
- UL Nominal Discharge Current rating of 10 kA



Description	Cat. No.			
QO Surgebreaker for QO and NQ	QO2175SB			
Homeline Surgebreaker	HOM2175SB			







QO250PSPD

HOM250PSPD









Internally Mounted Surge Protective Devices Surgelogic™ Type IMA

Internally mounted surge protective devices are installed integrally to systems for service entrance and branch panel surge suppression. Internally mounted SPDs installed next to the supply bus provide maximum performance inside Square D™ systems. Built-in performance is the way to achieve cost effective power quality and continuous operation (especially important for critical power facilities).

US and Canadian UL® Recognized as a Type 2 (or 1 with optional suffix in catalog number) SPD Component Assembly to UL 1449 and UL 1283 standards. Complies with requirements of NEC® Article 285 and CSA C22.2 No. 8-M1986 as appropriate. Complies with UL 96A Master Label requirements for Lightning Protection Systems.

Internally Mounted—New Construction / Factory Assembled

Factory installed integral/internal Surgelogic SPD products make adding surge suppression to new construction projects easy. Refer to the sections listed below to identify the correct product for your application or contact Surgelogic TAG at 1-800-577-7353 for assistance.





OEM/Assembler Kits

Surgelogic OEM/assembler kits allow manufacturers to add industry-leading surge suppression directly to customized equipment. Manufacturers benefit from shorter wire lengths that optimize the clamping voltage of the SPD. Products come with a backplane-mounted SPD, mounting hardware and diagnostic display with 36-inch cables. Audible alarm, silence switch, remote monitoring contacts, and surge counter are standard. Available as UL 1449 Type 1 with fused UL 1283 components.

US and Canadian UL Recognized to UL 1449. Complies with requirements of NEC Article 285 and CSA 22.2 No. 8-M1986, as appropriate. Complies with UL 96A Master Label requirements for Lightning Protection Systems.

Table 6.4: OEM/Assembler Kits

Service Voltage	Peak Surge Current Rating per Phase (kA)	Cat. No.
120/240 V, 1-phase,	200 kA Multi-Module	IMA12
3-wire + ground	300 kA Single Module	IMB13 IMB13F
208Y/120 V, 3-phase,	200 kA Multi-Module	IMA22
4-wire + ground [1] [2] Wye	300 kA Single Module	IMB23 IMB23F
240/120 V, 3-phase,	200 kA Multi-Module	IMA32
4-wire + ground High-leg Delta	300 kA Single Module	IMB33
240 V, 3-phase,	200 kA Multi-Module	IMA62
3-wire + ground [1] [3] Delta	300 kA Single Module	IMB63
480Y/277 V, 3-phase,	200 kA Multi-Module	IMA42
4-wire + ground [1] [3] Wye	300 kA Single Module	IMB43 IMB43F
480 V, 3-phase,	200 kA Multi-Module	IMA52
3-wire + ground [4] Delta	300 kA Single Module	IMB53
600Y/347 V, 3-phase,	200 kA Multi-Module	IMA82
4-wire + ground [1] Wye	300 kA Single Module	IMB83F
600 V, 3-phase,	200 kA Multi-Module	IMA92
3-wire + ground [5] Delta	300 kA Single Module	IMB93



Single Module OEM Kit

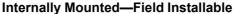


Multi-Module OEM Kit

- 1] Can be used on 4-wire or 3-wire grounded wye systems with or without neutral.
- [2] 208Y/120 series also applies to the following voltage 220Y/127.
- [3] 480Y/277 series applies to the following voltages 380Y/220, 400Y/230, and 415Y/240.
- [4] 480 V Delta series also applies to the following voltage: 480Y/277V HRG.
- [5] 600 V Delta series also applies to the following voltage: 600Y/347V HRG.







For high-performance surge suppression at critical power locations, a variety of Surgelogic products have been designed specifically for retrofitting into commonly used Square D systems. The I-Line plug-on units and the SurgeLoc for the NQ panelboards come ready to install. Retrofitting SPD units into I-Line, and NQ Panelboard applications is simple.

- Audible alarm with enable/disable switch, dry contacts and surge counter standard
- · 200 kA SCCR withstand
- Indicator LEDs
- EMI/RFI filtering
- Catalog numbers with a "1" suffix are UL Type 1 devices, and without the "1" suffix are UL Type 2 devices

Table 6.5: Internally Mounted—Retrofit / Ready To Install

			Branch Units [6]	
Voltage	Current Rating	Cat. No.	Cat. No.	
	120 kA	HL2IMA12C HL2IMA12C1	_	
208Y/120 V, 3-phase, 4-wire + ground [7] [8] Wve	160 kA	HL2IMA16C HL2IMA16C1	_	
wye	240 kA	HL2IMA24C HL2IMA24C1	HR2IMA24C	
240 V, 3-phase, 3-wire + ground, Delta	240 kA	HL6IMA24C	_	
490V/277 V 2 mhann	120 kA	HL4IMA12C HL4IMA12C1	HR4IMA12C	
480Y/277 V, 3-phase, 4-wire + ground [7] [9] Wve	160 kA	HL4IMA16C HL4IMA16C1	_	
wyc	240 kA	HL4IMA24C HL4IMA24C1	HR4IMA24C	
480 V, 3-phase, 3-wire + ground, Delta <i>[10]</i>	240 kA	HL5IMA24C HL5IMA24C1	HR5IMA24C	
600Y/347 V, 3-phase,	160 kA	_	HR8IMA16C HR8IMA16C1	
4-wire + ground [7] Wye	240 kA	_	HR8IMA24C HR8IMA24C1	

Surgelogic™ SurgeLoc for NQ Panelboards

Surgelogic SurgeLoc is the industry's first field installed internally mounted SPD in NQ panelboards - fully installed in approximately 2 minutes. Surgelogic SurgeLoc can be ordered as factory assembled in NQ Panelboards or can be ordered from your local Schneider Electric distributor for retrofit opportunities for NQ panelboards.

US and Canadian UL Recognized to UL 1449 and UL 1283 standards. Complies with requirements of NEC Article 285 and CSA 22.2 No. 8-M1986 as appropriate. Complies with UL 96A Master Label requirements for Lightning Protection Systems.

- · Retrofit into existing NQ Panelboards
- Ten modes of protection
- 200 kA SCCR withstand
- Audible alarm with enable/disable switch, dry contacts and surge counter standard
- Indicator LEDs; normal (green) and fault condition (red) for each phase



		,
Voltage	Surge Current	NQ Panelboard Units—SurgLoc [11]
voitage	Rating	Cat. No.
120/240 V 1 mbass	100 kA	SSP01SBA10D
120/240 V, 1-phase, 3-wire + ground	200 kA	SSP01SBA20D
5-wire i ground	240 kA	SSP01SBA24D
208Y/120 V, 3-phase,	100 kA	SSP02SBA10D
4-wire + ground [12] [8]	200 kA	SSP02SBA20D
Wye	240 kA	SSP02SBA24D
240Y/120 V, 3-phase, 4-wire + ground High-leg Delta	240 kA	SSP03SBA24D



I-Line™ Surgelogic SPD Unit



Surgelogic SurgeLoc

^[6] Requires 13.5-inch mounting height. HL circuit breakers are 125kAIC SCCR (240 V and below), 100kAIC SCCR (480 V), 50kAIC SCCR (600 V)

^[7] Can be used on 4-wire or 3-wire grounded wye systems with or without neutral.[8] 208Y/120 series also applies to the following voltage 220Y/127.

^{[9] 480}Y/277 series applies to the following voltages 380Y/220, 400Y/230, and 415Y/240. HR circuit breakers are 200kAIC SCCR (480 V and below), 100kAIC SCCR (600 V)

^{[10] 480} V Delta series also applies to the following voltage: 480Y/277V HRG.

^[11] Requires 12 circuit positions (6 adjacent mounting spaces per side)

^[12] Can be used on 4-wire or 3-wire grounded neutral system.



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External Mount Surge Protective Devices

External Mount SPDs









Surgelogic surge protective devices feature a compact design that allow surge surgerogic stripe protective devices relative a compact design that animy surge suppression to be externally installed adjacent to electrical distribution equipment. Surgelogic systems are designed to provide high-quality surge suppression for a wide variety of commercial, industrial or institutional applications.

US and Canadian UL Listed to the UL 1449 standard. Complies with requirements of NEC Article 285 and CSA 22.2 269.1 and 269.2 as appropriate. Complies with UL 96A Master Label requirements for Lightning Protection Systems.

Features of Surgelogic surge protective devices:

- LED light indicates operation status, audible alarm, dry contacts
- 200 kA SCCR withstand
- Surgelogic HWA UL Type 2 surge protective devices are designed and listed for indoor or outdoor installation and surge suppression for single-phase and three-phase electrical services up to 600 Vac.
- EMA units are UL Type 1, indoor rated and comes with a surge counter and fused UL 1283 components
- EMB units are UL Type 1, suitable for indoor and outdoor applications (UL / NEMA Type 4X rated) UL Type 2 with UL 1283 dual listing available with some configurations with "F" suffix indicated below
- HWC units are UL Type 2, suitable for indoor and outdoor applications (UL / NEMA Type 4X rated), includes a surge counter and are UL 1283 listed
- EMD units are UL Type 1, suitable for indoor and outdoor applications (UL / NEMA 4 rated) and come with a disconnect switch, surge counter UL Type 2 with UL 1283 dual listing available with some configurations with "F" suffix indicated below
- HWL and EML units are UL Type 1 and feature 10 discrete modes of protection
- · Optional flush mount kits:
 - HWA = HWAFM
 - HWB = HWBFM
 - EMA = EMAFM
 - EMB = EMBFM
 - HWC = HWCFM
- Remote Monitor = TVS12RMU

Table 6.7: Enclosed SPDs

Service Voltage	Indoor/	Outdoor	Indoor Only S	Surge Counter	Indoor / Outdoor	Indoor / Outdoor Surge Counter	Indoor / Outdoo	r Surge Counter, ect Switch
Service voltage	HWA (UL Type 2, UL 1283)	HWB (UL Type 1)	EMA 100 kA	EMA 200 kA	EMB 200 kA	HWC 300 kA	EMD 300 kA	EMD 500 kA
120 / 240 V, one- phase, three-wire + ground [2]	HWA11	HWB11	EMA11	EMA12	EMB12 EMB12F	HWC13	EMD13 EMD13F	_
208Y / 120 V, three-phase, four- wire + ground [3] [4] [2] Wye	HWA21	HWB21	EMA21	EMA22	EMB22 EMB22F	HWC23	EMD23 EMD23F	EMD25
240 / 120 V, three- phase, four-wire + ground [2] High-leg Delta	HWA31	HWB31	EMA31	EMA32	EMB32	HWC33	EMD33	ı
480Y / 277 V, three-phase, four- wire + ground [4] [5] [2] Wye	HWA41	HWB41	EMA41	EMA42	EMB42 EMB42F	HWC43	EMD43 EMD43F	EMD45
480 V, three- phase, three-wire + ground [6] Delta	HWA51	HWB51	EMA51	EMA52	EMB52	HWC53	EMD53	EMD55
240 V, three- phase, three-wire + ground Delta	HWA61	HWB61	EMA61	EMA62	EMB62	HWC63	EMD63	_
600Y / 347 V, three-phase, four- wire + ground, [2] [4] WYE	HWA81	HWB81	EMA81	EMA82	EMB82F	HWC83	EMD83F	_
600 V, three- phase, three-wire + ground [7]	HWA91	HWB91	EMA91	EMA92	_	_	EMD93F	_

Table 6.8: Enclosed 10 Discrete Mode SPDs

Service Voltage	Indoor / Outdoor Surge Counter	Indoor / Outdoor Surge Counter, Disconnect Switch		
Service voltage	HWL 300 kA	EML 300 kA		
120 / 240 V, one-phase, three-wire + ground	HWL13			
208Y / 120 V, three-phase, four-wire + ground Wye	HWL23	EML23		
480Y / 277 V, three-phase, four-wire + ground Wye	HWL43	EML43		





SDSA1175

SDSA Three-Phase



SPDE



HWE240B



SDSA1175, SDSA Three-Phase, and SPDE Surge Protective

Surgelogic SDSA1175 surge protective devices are designed and listed for indoor or outdoor installation and surge suppression for single-phase three-wire 120/240 Vac or two-wire 120 Vac 60 Hz electrical services. This product is ideal for panel builders as well as manufacturers and integrators of instrumentation cabinets for industrial and commercial applications for single-phase power systems.

Surgelogic SDSA three-phase surge protective devices are designed and listed for indoor or outdoor installation and surge suppression for three-phase electrical services up to 600 Vac. The SDSA three-phase series is used extensively in service entrance panels to provide an efficient and economical means of surge suppression and also ideal for point of use applications for that added level of protection.

Surgelogic SPDE surge protective devices add neutral to ground (N-G) protection and optional dry contacts (DC) and audible alarm (AA). The SPDE can also be mounted on a DIN Rail with the included mounting bracket.

US and Canadian UL Listed as Type 1 SPD to the UL 1449 standard. Complies with requirements of NEC Article 285, CSA 233.1–87, and CSA C22.2 No. 8–M1986 as appropriate.

Table 6.9: SDSA1175 and SDSA Three-Phase Surge Protective Devices

System Voltage	Surge Current Rating per Phase (kA)	L-N Only Cat. No.	L-N & N-G Cat. No.	L-N & N-G) with DC & AA Cat. No.
120 V, one-phase,	36	SDSA1175T	_	_
two-wire	50	_	SPDE0	SPDE0A
120 / 240 V, one-	36	SDSA1175	_	_
phase, three-wire	50	_	SPDE1	SPDE1A
208Y / 120 V three- phase, four-wire	50	SDSA2040	SPDE2	SPDE2A
240 V Delta, three- phase, three-wire	50	SDSA2040D	_	SPDE6A
480Y / 277 V, three- phase, four-wire	50	SDSA4040	SPDE4	SPDE4A
480 V Delta, three- phase, three-wire	50	SDSA4040D	_	SPDE5A
600Y / 347 V, three- phase, four-wire	50	SDSA3650	_	SPDE8A
600 V Delta, three- phase, three-wire	50	SDSA3650D	_	SPDE9A

HWE240B

Surgelogic HWE240B suppressor provides 120 V or 120 / 240 V services with 40 kA of surge protection in a compact indoor use enclosure.

UL Listed UL 1449 (Type 2), 3 kA iNominal.

Description	Cat. No.
120 V or 120 / 240 V 40 kA SPD	HWE240B

FAS120AC

Surgelogic FAS120AC suppressor provides 120 V services with 15.5 kA of surge protection in a compact indoor use enclosure.

UL Listed UL 1449 (Type 2), 3 kA iNominal.

Description	Cat. No.
120 V, 15.5 kA SPD	FAS120AC













IESE Series Filter



ICSE Series Filter

Multi 9 DIN Rail Mounted SPD

Surgelogic Multi 9 surge protective devices are 75 kA per mode devices provide compact surge protection for OEM installations. These units feature a tab to indicate device status and have dry contact lugs for remote indication. The Multi 9 SPD is UL Type 1 recognized. There are 1, 2, 3 and 4 pole options to meet application specific requirements.

US and Canadian UL recognized to UL 1449 Type 1. Complies with requirements of NEC Article 285 and CSA 22.2 No. 8-M1986 as appropriate. Complies with UL 96 A Master Label requirements for Lightning Protection Systems.

Voltage	Poles	Cat. No.
120 V Single Phase	1	M9L11120
240 V, 277 V Single Phase	1	M9L31277
120 / 240 V Split phase	2	M9L12240
208Y / 120 V Wye, 240 V Delta	3	M9L23240
480 V Delta 3W + Ground	3	M9L53480
480Y / 277 V 480 V Delta, Wye, 4W	3	M9L33480
208Y / 120 V Wye, 4W + Ground	4	M9L17208
480Y / 277 V Wye, 4W + Ground	4	M9L37480

IESE Series Filter

Surgelogic Type IESE with ActiveTracking™ Filter technology offers high frequency noise filter capabilities with surge protection for loads up to 5 or 20 A of continuous current. These are DIN mounted devices for 120 V or 240 V applications.

US and Canadian UL Recognized to UL 1449 Type 2 / UL 1283. Complies with requirements of NEC Article 285 and CSA 22.2 No. 8-13, CSA Electrical Notice 516.

Description	Cat. No.
120 V 5 A Series Filter	HFNF120IESE005
120 V 20 A Series Filter	HFNF120IESE020
240 V 5 A Series Filter	HFNF240IESE005
240 V 20 A Series Filter	HFNF240IESE020

ICSE Series Filter

Surgelogic Type ICSE with ActiveTracking Filter technology offers high frequency noise filter capabilities with surge protection for loads up to 30 A of continuous current. These are flange mounted devices for 120 or 240 V applications.

US and Canadian UL Recognized to UL 1449 Type 2 / UL 1283. Complies with requirements of NEC Article 285 and CSA 22.2 No. 8-M1986.

Description	Cat. No.
120 V 5 A Series Filter	HFNF120ICSE005
120 V 15 A Series Filter	HFNF120ICSE015
120 V 30 A Series Filter	HFNF120ICSE030
240 V 2 A Series Filter	HFNF240ICSE002
240 V 15 A Series Filter	HFNF240ICSE015



DRSE DIN Mount Signal SPD



SSE Signal Protection



PC6425



SLCP36



PC64236



PHC36

DRSE DIN Mount Signal SPD

Surgelogic DRSE DIN Rail mounted is designed to help protect 30 Vdc network signal lines from surge impulses for loads up to $0.15\,\mathrm{A}.$

UL Recognized to UL 497B.

Description	Cat. No.
0.15 A, 30 Vdc 10 kA Surge Current Rated	SSP030DRSE10

SSE Signal Protection

Surgelogic SSE suppressor provide multi-stage surge protection designed for water and wastewater flow meter control applications, encapsulated in stainless steel pipes for quick installation.

UL Recognized to UL 497B.

Description	Cat. No.	
150 mA, 28 Vdc 10 kA Surge Current Rated	SSP030SSE10HC	

Modular Signal Line SPD

Surgelogic signal line SPDs are three-stage hybrid devices mounted on a PCB1BWKEY base terminal block allowing for module replacement when required. These devices are rated at 10 kA peak surge current and up to 36 Vdc nominal voltage.

UL Recognized UL 497B.

Description	Cat. No.
150 mA, up to 5 volt	PC6425
150 mA, 6-36 volt	PC64236
1 A up to 36 V	SLCP36
5 A up to 36 V	PHC36



Square D Easy UPS 3S (UL 208 V)

Refer to the Square D Easy Ups 3S Product Page



UPS



Battery String



Modular Battery Cabinet

Square D Easy UPS 3S (UL 208 V)

The **Square D Easy UPS 3S** is an easy-to-install, easy-to-use and easy-to-service **10-40 kVA** 3-phase 208 V UPS ideal for non-IT applications. Easy UPS 3S combines power stability with robust electrical specifications and long-lasting performance to ensure your business continuity.

- . US listed to the UL 1778 standard
- Complies with the requirements of CSA C22.2 No. 107.3-14 + GI1
- Optimize efficiency
 - Double Conversion Mode (up to 94%)
 - ECO Mode (98% efficiency)
- 1.0 power factor kVA = kW
- Parallel up to 4 units for 10-30 kVA. Parallel 3 units for 40 kVA.
- · Robustness against harsh environment
 - Conformal coating on PCBA
 - Replaceable dust filter
 - 60s @ 150% overload, 10 min. @ 125% overload.
 - Operating temperature: 32 104°F

· Flexibility for wider application

- Modular battery cabinet for longer runtime
- SNMP / Modbus TCP/IP / dry contact for connectivity
- 5 years lifespan battery module

Connectivity

- Startup service included with every UPS
- EcoStruxture™ ready
- Network management card to remotely monitor and control

Please Note: Batteries are not included with the UPS. Use the selection tables below to determine number of batteries.

Using the selection table, choose what percentage of the total kVA will be backed up. Then, choose the runtime.

Example: A 20 kVA UPS backing up 75% of its kVA for a runtime of 1 hour will require (1) E3SUPS20KFBS, (1) E3SXR7, and (12) E3SFBTH2. Then, choose accessories if

The maximum number of battery strings that can be installed in a modular battery cabinet (E3SXR7) is 12.



Square D Easy UPS 3S is configurable in SE Advantage. Access via the SE Advantage home page. www.se.com/us/en/partners/local/channels/pem-program/se-advantage/

Table 6.10: Selection Table for 10 kVA UPS

		% Load			Battery
Part Number	Measurement	50%	75%	100%	Strings
	KW	5	7.5	10	_
E3SUPS10KFBS + (#) of	kVA	5	7.5	10	_
battery strings needed E3SFBTH2	Duntings	10.5	5.8	_	1
É3SFBTH2	Runtime (Minutes)	26.5	15.5	10.5	2
	(Williates)	44.5	26.5	18	3
	KW	5	7.5	10	_
	kVA	5	7.5	10	_
		63.5	38.5	26.5	4
		83.5	51	35	5
		100	63.5	44	6
E3SUPS10KFBS + 1 modular		125	77	53.5	7
battery cabinet E3SXR7 + (#)		145	90.5	63	8
of battery strings needed	Runtime	170	100	73	9
E3SFBTH2	(Minutes)	190	115	83	10
		215	130	93	11
		240	145	100	12
		265	160	110	13
		285	175	120	14
		300	190	135	15

160 165 26 27

Table 6.11: Selection Table for 15 kVA UPS

		% Load			Battery
Part Number	Measurement	50%	75%	100%	Strings F3SFBTH2
	KW	7.5	11.25	15	_
E3SUPS15KFBS + (#) of	kVA	7.5	11.25	15	_
battery strings needed	Desertions	5.8		_	1
E3SFBTH2	Runtime (Minutes)	15.5	8.9	5.7	2
	(Williates)	26.5	15.5	10.5	3
	KW	7.5	11.25	15	_
	kVA	7.5	11.25	15	_
		38.5	23	15.5	4
		51	30.5	21	5
		63.5	38.5	26.5	6
E3SUPS15KFBS + 1 modular		77	46.5	32.5	7
battery cabinet E3SXR7 + (#) of		90.5	55	38	8
battery strings needed E3SFBTH2	Runtime	100	63.5	44.5	9
E3SFBTH2	(Minutes)	115	72	50.5	10
		130	81	57	11
		145	90	63.5	12
		160	99.5	70	13
		175	105	76.5	14
		190	115	83	15
	KW	7.5	11.25	15	_
	kVA	7.5	11.25	15	_
		205	125	90	16
		225	135	97	17
E3SUPS15KFBS + 2 of E3SXR7 + (#) of battery strings needed E3SFBTH2		240	145	100	18
		255	155	110	19
		270	165	115	20
	Runtime	285	175	125	21
	(Minutes)	300	185	130	22
		300	195	135	23
		300	205	145	24
		300	215	150	25

Table 6.12: Selection Table for 20 kVA UPS

	Measure- ment		Battery		
Part Number		50%	75%	100%	Strings F3SFBTH2
	KW	10	15	20	_
E3SUBS30VERS + (#) of bottony	kVA	10	15	20	_
E3SUPS20KFBS + (#) of battery strings needed E3SFBTH2	Runtime				1
5g5 1155464 2561 2 1112	(Minutes)	10.5	5.8		2
	(Williatos)	18.5	10.5	6.9	3
	KW	10	15	20	_
	kVA	10	15	20	_
		27	15.5	10.5	4
		36	21	14	5
		45	26.5	18	6
FOOLIDOON/FDO . 4 (FOOVD)		54.5	32.5	22.5	7
E3SUPS20KFBS + 1 of E3SXR7		64.5	38.5	26.5	8
+ (#) of battery strings needed E3SFBTH2	Runtime	74.5	44.5	31	9
E331 B1112	(Minutes)	84.5	51	35.5	10
		95	57.5	40	11
		105	63.5	44.5	12
		115	70.5	49	13
		125	77	53.5	14
		135	83.5	58.5	15
	KW	10	15	20	_
	kVA	10	15	20	_
		145	90.5	63.5	16
		160	97.5	68.5	17
		170	100	73	18
		180	110	78	19
E3SUPS20KFBS + 2 of E3SXR7		195	115	83.5	20
+ (#) of battery strings needed E3SFBTH2	Runtime	205	125	88.5	21
LOGI BITIZ	(Minutes)	215	130	93.5	22
		230	140	98.5	23
		240	145	100	24
		255	155	105	25
		265	160	110	26
		280	170	120	27

Schneider Electric

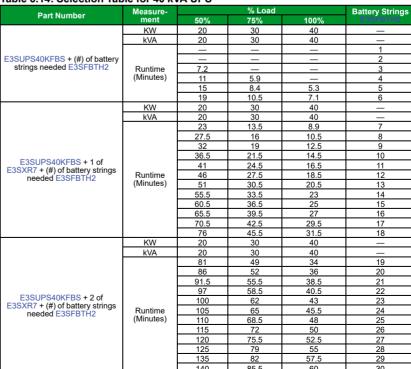
Square D Easy UPS 3S (UL 208 V)

Refer to the Square D Easy Ups 3S Product Page

Table 6.13: Selection Table for 30 kVA UPS

Table 6.13: Selection Tab		Dattama Otaliana			
Part Number	Measure- ment	50%	% Load 75%	100%	Battery Strings
	KW	15	22.5	30	LOGIDINE
	kVA	15	22.5	30	_
	KVA	— —		- 30 	1
ESCUEDOSONERO LA (#) of hottom	-	5.9	_		2
E3SUPS30KFBS + (#) of battery strings needed E3SFBTH2	Runtime	10.5	5.9		3
Strings riccucu ESOI BTT12	(Minutes)	16	9.1	5.8	4
	(iviiiidics)	21.5	12.5	8.2	5
	-	27.5	16	10.5	6
	KW	<u>27.5</u> 15	22.5	30	<u> </u>
	kVA	15	22.5	30	_
	KVA	33.5	19.5	13	7
	-	39.5		16	8
	-	45.5	23.5 27	18.5	9
	-	45.5 52	31	21	10
E3SUPS30KFBS + 1 of	-	58.5	35	24	11
E3SXR7 + (#) of E3SFBTH2	D		39	27	12
below	Runtime (Minutes)	65 72	43		13
	(Williates)	72 79	43	30 33	13
	-			<u>33</u>	
	-	85.5	51.5		15
	-	92.5	56	39 42	16 17
	-	100	60.5		
	1014	105	64.5	45	18
	KW kVA	15	22.5	30	_
	KVA	15	22.5	30	- 40
	-	110	69	48	19
	-	120	73.5	51.5	20
	-	125	78	54.5	21
E3SUPS30KFBS + 2 of	-	135	82.5	57.5	22
E3SXR7 + (#) of E3SFBTH2	D	140	87.5	61	23
bélow	Runtime (Minutes)	150 155	92 96.5	64 67.5	24 25
	(Williates)				
	-	165	100	71 74	26
	-	170	105 110	77.5	27 28
	-	180	115	81	29
	-	190 195	120	84.5	30
	KW			30	30
		15	22.5		
	kVA	15	22.5	30	
	-	205	125 130	88 91.5	31 32
	-	210			
	-	220	135	95	33
E3SUPS30KFBS + 3 of		230	140 145	98.5 100	34
E3SXR7 + (#) of E3SFBTH2	Duntings	235			35 36
bélow	Runtime (Minutes)	245 250	150 155	105 105	36
	(Williates)				
		260	160	110	38
		270	165 170	115 115	39 40
	1	275 285	170	120	40
		285	180		41
		290	100	125	42









Battery String

Refer to the Square D Easy Ups 3S Product Page

Table 6.14 Selection Table for 40 kVA UPS (cont'd.)

Boot Name boo	Measure-		Battery Strings		
Part Number	ment	50%	75%	100%	E3SFBTH2
	KW	20	30	40	_
	kVA	20	30	40	_
		145	89	62.5	31
		150	92.5	65	32
		155	96	67.5	33
		160	100	70	34
E3SUPS40KFBS + 3 of		165	100	72.5	35
E3SXR7 + (#) of battery strings needed E3SFBTH2	Runtime	175	105	75	36
needed E331 B1112	(Minutes)	180	110	77.5	37
		185	110	80	38
		190	115	82.5	39
		195	120	85	40
		205	125	88	41
		210	125	90.5	42
	KW	20	30	40	_
	kVA	20	30	40	_
		215	130	93	43
		220	135	95.5	44
		225	140	98.5	45
		235	140	100	46
E3SUPS40KFBS + 4 of		240	145	100	47
E3SXR7 + (#) of battery strings needed E3SFBTH2	Runtime	245	150	105	48
needed Esoi Biriz	(Minutes)	250	155	105	49
		260	155	110	50
		265	160	110	51
		270	165	115	52
		275	170	120	53
		285	170	120	54

Table 6.15: Accessories for Easy UPS 3S

Part Number	Description
E3SUPS10KFBS	10 kVA 208V 3:3 UPS for internal batteries, Start-up 5x8
E3SUPS15KFBS	15 kVA 208V 3:3 UPS for internal batteries, Start-up 5x8
E3SUPS20KFBS	20 kVA 208V 3:3 UPS for internal batteries, Start-up 5x8
E3SUPS30KFBS	30 kVA 208V 3:3 UPS for internal batteries, Start-up 5x8
E3SUPS40KFBS	40 kVA 208V 3:3 UPS for internal batteries, Start-up 5x8
E3SBPSU10K20F	Maintenance Bypass Panel, single unit, 10–20kVA 208 V
E3SBPSU30K40F	Maintenance Bypass Panel, single unit, 30-40kVA 208 V
E3SBPAR10K40F	Parallel Maintenance Bypass Panel for 3 UPSs, 10-40kVA 208 V
E3SXR7	Modular Battery Cabinet 208 V
E3SFBTH2	High Capacity Battery String 208 V
E3SOPT010	Dry Contact Card
E3SOPT014	Cold Start Kit 15-40 kVA 208 V
E3SOPT015	Kirk Key Kit
E3SOPT001	Series Network Card
E3SOPT002	Parallel Kit







Cold Start Kit







Series Network Card

