



Eaton 9355 UPS 10-15 kVA Technical Specs

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Technical Specifications for 10 and 15 kVA¹

Power

Ratings (kVA/Watts)	10 kVA/9 kW and 15 kVA/13.5 kW at 0.9 power factor
Topology	Double conversion

Electrical Input

Nominal input voltage	208V/120V or 220V/127V three-phase 400V models also available
Input voltage range	-15%, +10% from nominal at 100% load without depleting battery
Operating frequency	50/60 Hz (45 to 65 Hz)
Input power factor	>0.99 typical, >0.96 frequency converter
Input current distortion	5% THD

Electrical Output

Nominal output voltage	208/120, 220/127 Vac
Output voltage regulation	±1% static; ±5% dynamic at 100% resistive load change, <1 ms response time
Efficiency	91%, typical
Heat dissipation (BTU/hr)	10 kVA models: 3,798 @ 208V and 220V input 6,294 @ 480V and 600V (with input isolation transformer) 15 kVA models: 5,122 @ 208V and 220V input 8,134 @ 480V and 600V (with input isolation transformer)

Battery

Battery type	9 Ah, sealed, lead-acid, maintenance-free
Battery runtime	See battery backup time chart
Battery management	ABM technology
Battery replacement	Field-replaceable
Charger	Default is 3.4A per battery string. Charger current is configurable from 0.5A to 25A per string with an overall maximum of 34A (limited by input current)
Start-on-battery	Allows start of UPS without utility input

General

Diagnostics	Full system self-test at startup
UPS bypass	Automatic on overload or UPS failure
Parallel for redundancy	Yes, using Powerware Hot Sync technology and capacity
Dimensions and weights	See model selection table

Overload (normal operation)	150% for 5 sec / 125% for 1 min (online), 110% for 10 min
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Communications

LCD display	Graphical LCD with blue backlight
LEDs	(4) LEDs for notice and alarm
Audible alarms	Yes
Communication ports	(1) RS-232, (1) relay contact, (1) REPO, (2) environmental input
Communication slots	(2) X-Slot communication bays
Power management software	Bundled Software Suite CD

Environmental

Operating temperature	50–104°F (10–40°C), 45°C with 7.5% derating; Optimal battery performance: 77°F (25°C)
Storage temperature	32–77°F (0–25°C); Recommended battery storage: 59–77°F (15–25°C)
Relative humidity	0–95%, non-condensing
Audible noise	<56 dBA at 1 meter (noiseless room) typical
Altitude	9,843 ft. (3000m) without derating

Certifications

Safety certifications	IEC 62040-1-1, IEC 60950, EN 62040-1-1, UL 1778
EMC compliance	EN 50091-2 Class A
Quality	ISO 9001: 2000 and ISO 14001:1996
Markings	UL, cUL

1. Due to continuous product improvements, program specifications are subject to change without notice.

Battery Run Times (in minutes)

VA	Watt	UPS + Internal 32 Battery	(1) EBM 64	(2) EBM 64	(3) EBM 64	(4) EBM 64	UPS + Internal 64 Battery	(1) EBM 96	(2) EBM 96	(3) EBM 96
15000	13500	5	23	43	65	89	13	43	77	113
14500	13050	5	24	45	68	93	14	45	81	119
14000	12600	5	25	47	72	97	15	47	84	125
13500	12150	6	26	49	75	102	16	49	88	130
13000	11700	6	28	52	78	106	17	52	92	136
12500	11250	6	29	54	82	111	18	54	96	142
12000	10800	7	30	57	86	116	19	57	101	149
11500	10350	7	32	59	90	122	19	59	106	156
11000	9900	7	33	62	94	129	20	62	111	164
10500	9450	8	35	66	100	136	21	66	117	174
10000	9000	8	37	70	106	144	23	70	124	184
9500	8550	9	40	74	112	153	24	74	132	196
9000	8100	10	42	79	120	163	26	79	141	209
8500	7650	11	46	85	129	175	28	85	152	225
8000	7200	12	49	92	139	189	30	92	164	242
7500	6750	13	53	100	151	205	32	100	178	263
7000	6300	15	58	109	164	224	35	109	194	286
6500	5850	16	64	119	180	245	39	119	212	314
6000	5400	18	70	131	198	270	43	131	234	346
5500	4950	20	78	145	220	300	47	145	259	383
5000	4500	22	87	162	245	334	53	162	289	428
4500	4050	25	97	182	276	376	59	182	325	-
4000	3600	29	110	207	313	426	67	207	369	-
3500	3150	33	127	238	359	-	77	238	423	-
3000	2700	38	148	277	418	-	90	277	-	-
2500	2250	46	176	329	-	-	107	329	-	-

Note: Backup times are approximate and may vary with equipment, configuration, battery age, temperature etc.

Model Selection Table

Power Rating (kVA/kW) ¹	Description	Input/Output Voltage	Part Number ²	Base Runtime	Dimensions (HxWxD, in.)	Weight (lb.) ³
10 / 9	2-high w/32 battery	208/208	KA1011100000010	8	32.2 x 12.0 x 33.5	373.0
10 / 9	3-high w/64 battery	208/208	KA1012100000010	22	47.8 x 12.0 x 33.5	609.0
10 / 9	2-high w/32 battery	220/220 ⁴	KA1011200000010	8	32.2 x 12.0 x 33.5	373.0
10 / 9	3-high w/64 battery	220/220 ⁴	KA1012200000010	22	47.8 x 12.0 x 33.5	609.0
10 / 9	3-high w/32 battery and input isolation transformer	480/208	KA1013400000010	8	47.8 x 12.0 x 33.5	577.0
10 / 9	3-high w/32 battery and input isolation transformer	600/208	KA1013600000010	8	47.8 x 12.0 x 33.5	577.0
15 / 13.5	2-high w/32 battery	208/208	KA1511100000010	4	32.2 x 12.0 x 33.5	373.0
15 / 13.5	3-high w/64 battery	208/208	KA1512100000010	13	47.8 x 12.0 x 33.5	609.0
15 / 13.5	2-high w/32 battery	220/220 ⁴	KA1511200000010	4	32.2 x 12.0 x 33.5	373.0
15 / 13.5	3-high w/64 battery	220/220 ⁴	KA1512200000010	13	47.8 x 12.0 x 33.5	609.0
15 / 13.5	3-high w/32 battery and input isolation transformer	480/208	KA1513400000010	4	47.8 x 12.0 x 33.5	577.0
15 / 13.5	3-high w/32 battery and input isolation transformer	600/208	KA1513600000010	4	47.8 x 12.0 x 33.5	577.0

1. 50/60 Hz auto-sensing.
2. 220V units are wye connected 220/127V input and 220/127V output, three-phase, 4-wire plus ground.
3. Add 47 lbs for 2-high configurations or 50 lbs for 3-high configurations to determine shipping weight.
4. An input neutral is required for all configurations unless the input isolation transformer is used.
5. For parallel systems, change CTO digit #5 to a "2" and include Parallel Tie Cabinet. Eaton startup is required for factory warranty of parallel configuration.

Power Distribution Module with Mechanical Bypass Switch

NEMA Output Receptacle(s) ¹ Quantity	Breaker	Voltage (V)	Receptacle Code ²	Phase(s)	Enter "Receptacle Code" into CTO Digits #
(1) L15-30R	30A	208	2	3	9, 10 or 11 only

(1) L21-20R	20A	208/120	3	3	9, 10 or 11 only
(1) L21-30R	30A	208/120	4	3	9, 10 or 11 only
(2) 5-15R	15A	120	A	1	9,10,11,12
(2) 5-20R UL	20A	120	B	1	9,10,11,12
(2) 6-15R	15A	208	D	2	9,10,11,12
(2) 6-20R	20A	208	E	2	9,10,11,12
(2) L5-15R	15A	120	F	1	9,10,11,12
(1) L5-20R*	20A	120	G	1	9,10,11,12
(1) L5-30R*	30A	120	H	1	9,10,11,12
(2) L6-15R	15A	208	I	2	9,10,11,12
(1) L6-20R*	20A	208	J	2	9,10,11,12
(1) L6-30R*	30A	208	K	2	9,10,11,12
(1) L14-20R*	20A	120/208	L	2	9,10,11,12
(1) L14-30R*	30A	120/208	M	2	9,10,11,12
Blank panel	N/A	N/A	X	N/A	9,10,11,12
(2) IEC 320 C13 (120V)	20A	120	N	1	9,10,11,12
(2) IEC 320 C19 (120V)	20A	120	P	1	9,10,11,12

Note: Arrange receptacle codes in numerical-alphabetical order in digits 9 through 12 of the CTO number

Example 1: A PDM with an L21-20, an L14-30, and Qty 2 IEC320-C19 would have digits 9 through 12 of the CTO arranged as "3MPP".

Example 2: A PDM with a 5-15R, and an L6-30 and an L14-30 would have digits 9 through 12 of the CTO arranged as "AKMX".

The combined quantities of LOCKING receptacles (denoted by *) must not exceed 4 per unit.

Please be sure to utilize the "X" designation for any of the four total slots not populated.

Options

Description	Part Number	Input/Output Voltage (V)	Dimensions (H x W x D, inches)	Weight (lb) ¹
2-High Line & Match Extended Battery Module (64 batteries)	103004192-5501	N/A	32.2 x 12 x 30.2	480
3-High Line & Match Extended Battery Module (96 batteries)	103004193-5501	N/A	47.8 x 12 x 30.2	710
Wall Mount Parallel Tie Cabinet, 2-Breaker MBP (225A Bus, 200A Neutral, (1) 225A MBP, & (4) 80A MOBs)	124100020-001*	N/A	36 x 20 x 5.75	68
Wall Mount Parallel Tie Cabinet With MIS Breaker (225A MBP, 225A MIS, & (4) 80A MOBs)	124100020-002*	N/A	60 x 20 x 5.75	140
Wall-mounted Remote EPO Switch	103002939	N/A		
Seismic Mounting Kit for UPS and battery cabinets	103004194-5501	N/A	-	-
Remote Monitor Display Panel (Requires Industrial Relay and Display Drive Card Part Number 103003055)	103002687-001	N/A	4.9 x 5.9 x 1.6	3
CAN Bridge Parallel Card	103004336*	-	-	-

1. This is a net weight; please add 40 lb for the shipping weight of the panels and 50 lb for panels with panelboard provisions.

* Eaton startup is required for factory warranty of parallel configuration

Three-breaker maintenance bypass panels

100A Bus, 200A Neutral, & 60A MBP, MIB, MIS ³	124100027-001	208/208	48 x 20 x 5.8	120
With integral 120 KA TVSS (100A Bus, 200A Neutral, and 60A MBP, MIB, MIS) ³	124100027-002	208/208	60 x 20 x 5.8	120
With 36-pole distribution provisions (Eaton GHB 14 kAIC) ³	124100027-003	208/208	72 x 20 x 5.8	210
With 36-pole distribution provisions and integrated SPD (Eaton GHB 14 kAIC) ³	124100027-004	208/208	90 x 20 x 5.8	225

1. This is a net weight; please add 40 lb for the shipping weight of the panels and 50 lb for panels with panelboard provisions.

Built-in Connectivity Options

Description	Value for CTO Digit 8	Part Number (if ordered separately)
None (No Pre-installed X-Slot card)	0	-
Power Xpert Gateway Card	3	103007974-5591
Modbus Card-X-Slot	4	103005425-5591
Relay Interface Card-X-Slot (AS/400 Compatible)	5	1018460
Industrial Relay and Display Drive Card X-Slot	6	103003055

Note: You can have up to two optional connectivity cards installed.

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