Central Battery Systems AC/AC

LoadStar-PS - Datasheet

LoadStar-PS units



Unit cabinets	Dimensions (mm)
Type A	W335 x D750 x H950
Type B	W335 x D750 x H1300
Type C	W480 x D750 x H1750

External battery cabinets (EBC)



Battery cabinets	Dimensions (mm)
Sidecar	W159 x D750 x H950*
EBC-A	W335 x D750 x H1300
EBC-B	W761 x D750 x H1750
EBC-C	W585 x D914 x H1876

* The 2kVA 1h configuration will use the "sidecar" setup for a total dimension of W494 x D750 x H950 (unit + battery cabinet)



LoadStar-PS - AC/AC central battery systems

- High efficiency EN50171 CPS specific for safety applications
- 2, 5, 10 and 20 kVA with single and three phase output voltage
- Intuitive, multilingual 5" touchscreen display
- Parallel mode up to 6 systems of the same kVA value and phase type
- Elegant, RAL9005 black matt metallic enclosure for both units and batteries
- Specific I/O, as required from EN50171, for failure reporting and test system integration
- Extended battery life thanks to the Advanced Battery Management (ABM) charge routine
- Compatible with Eaton AT-S+ emergency lighting monitoring system

Input / Output wiring	2 / 5 kVA 1 Phase + N + PE 10 / 20 kVA 3 Phases + N + PE
Input frequency range	40 to 72 Hz
Housing	Metallic enclosure with RAL9005 black matt coating
Protection degree (Units)	IP20 (IP21 kit available as accessory)
Working temperatures	Max allowed ambient temperature range +0 to +40°C Recommended temperature range +20 to +25°C (for battery 10Y lifetime)
Altitude	1000 m without derating (max 2000 m)
Battery type	VRLA / AGM 10 year design lifetime
I/O free potential contacts	Input: mains cut simulation (force battery mode), EPO (emergency power OFF) Output: general failure, battery mode active, battery deep discharge active

Configurations

Part number	Model	Rating	Output type	Housing	Internal batteries	Weight (net/gross)
LSPS1P2KB0	LoadStar-PS 2KVA 1ph	2kVA / 2KW	1:1	Type A	No batteries	67 / 92 kg
LSPS1P5KB0	LoadStar-PS 5KVA 1ph	5kVA / 5KW	1:1	Type A	No batteries	67 / 92 kg
LSPS3P10KB0	LoadStar-PS 10KVA 3ph	10kVA / 10KW	3:3	Type B	No batteries	90 / 111 kg
LSPS3P10KB1	LoadStar-PS 10KVA 3ph	10kVA / 10KW	3:3	Type B	1 string (32x9Ah)	176 / 197 kg
LSPS3P10KB2	LoadStar-PS 10KVA 3ph	10kVA / 10KW	3:3	Type B	2 strings (32x9Ah)	252 / 273 kg
LSPS3P20KB0	LoadStar-PS 20KVA 3ph	20kVA / 20KW	3:3	Type C	No batteries	208 / 234 kg
LSPS3P20KB3	LoadStar-PS 20KVA 3ph	20kVA / 20KW	3:3	Type C	3 strings (32x9Ah)	461 / 477 kg
LSPS3P20KB4	LoadStar-PS 20KVA 3ph	20kVA / 20KW	3:3	Type C	4 strings (32x9Ah)	532 / 558 kg

Internal batteries

Part number	Description	Weight (net/gross)
P-103003010-002	Kit Internal battery string (32x9AH LL)	50 / 60 kg

External battery cabinets

Part number	Model	Housing	Batteries	Weight (net/gross)
P-105000111-002	Battery Sidecar 1x32 9AHLL	Sidecar	1 string (32x9Ah)	103 / 130 kg
P-105000041-006	EBC-A-2x32-9AHLL-BB-63A	EBC-A	2 strings (32x9Ah)	247 / 268 kg
P-105000041-007	EBC-A-3x32-9AHLL-BB-63A	EBC-A	3 strings (32x9Ah)	328 / 349 kg
P-105000084-002	EBC-B-1x32-CSBHRL12200W-BB-63A-M6	EBC-B	1 string (32xHRL12200W)	706 / 733 kg
P-105000017-004	EBC-C-1x36-CSBHRL12200W-BB-200A-M6	EBC-C	1 string (36xHRL12200W)	795 / 822 kg
P-105000017-010	EBC-C-1x40-CSBHRL12200W-BB-200A-M6	EBC-C	1 string (40xHRL12200W)	865 / 892 kg

System configurations

Rating and duration required		LoadStar-PS unit		Internal batteries		External batteries	
Load (KW)	**Duration (min)**	**Unit (kVA)**	**Unit P/N**		**Internal batteries P/N**	**External batteries P/N**	**Qty required**
1	60	2	LSPS1P2KB0	to be added	P-103003010-002	not needed	
1	90	2	LSPS1P2KB0	to be added	P-103003010-002	not needed	
1	120	2	LSPS1P2KB0	to be added	P-103003010-002	P-105000111-002	1
1	180	2	LSPS1P2KB0	to be added	P-103003010-002	P-105000111-002	1
2	60	2	LSPS1P2KB0	to be added	P-103003010-002	P-105000111-002	1
2	90	2	LSPS1P2KB0	to be added	P-103003010-002	P-105000111-002	1
2	120	2	LSPS1P2KB0	not needed		P-105000041-007	1
2	180	2	LSPS1P2KB0	not needed		P-105000041-007	1
4	60	5	LSPS1P5KB0	not needed		P-105000041-007	1
4	90	5	LSPS1P5KB0	to be added	P-103003010-002	P-105000041-007	1
4	120	5	LSPS1P5KB0	to be added	P-103003010-002	P-105000041-007	1
4	180	5	LSPS1P5KB0	not needed		P-105000084-002	1
5	60	5	LSPS1P5KB0	not needed		P-105000041-007	1
5	90	5	LSPS1P5KB0	to be added	P-103003010-002	P-105000041-007	1
5	120	5	LSPS1P5KB0	not needed		P-105000041-006 + P-105000041-007	1
5	180	5	LSPS1P5KB0	to be added	P-103003010-002	P-105000084-002	1
6	60	10	LSPS3P10KB1	included in the unit		P-105000041-007	1
6	90	10	LSPS3P10KB2	included in the unit		P-105000041-007	1
6	120	10	LSPS3P10KB0	not needed		P-105000084-002	1
6	180	10	LSPS3P10KB2	included in the unit		P-105000084-002	1
8	60	10	LSPS3P10KB2	included in the unit		P-105000041-007	1
8	90	10	LSPS3P10KB0	not needed		P-105000084-002	1
8	120	10	LSPS3P10KB2	included in the unit		P-105000084-002	1
8	180	10	LSPS3P10KB0	not needed		P-105000084-002	2
10	60	10	LSPS3P10KB0	not needed		P-105000084-002	1
10	90	10	LSPS3P10KB2	included in the unit		P-105000084-002	1
10	120	10	LSPS3P10KB0	not needed		P-105000084-002	2
10	180	10	LSPS3P10KB2	included in the unit		P-105000084-002	2
12	60	20	LSPS3P20KB0	not needed		P-105000017-004	1
12	90	20	LSPS3P20KB3	included in the unit		P-105000084-002	1
12	120	20	LSPS3P20KB0	not needed		P-105000084-002	2
12	180	20	LSPS3P20KB0	not needed		P-105000084-002	3
14	60	20	LSPS3P20KB0	not needed		P-105000017-010	1
14	90	20	LSPS3P20KB0	not needed		P-105000084-002	2
14	120	20	LSPS3P20KB0	not needed		P-105000017-004	2
14	180	20	LSPS3P20KB0	not needed		P-105000017-004	3
16	60	20	LSPS3P20KB3	included in the unit		P-105000084-002	1
16	90	20	LSPS3P20KB0	not needed		P-105000084-002	2
16	120	20	LSPS3P20KB0	not needed		P-105000017-010	2
16	180	20	LSPS3P20KB0	not needed		P-105000017-010	3
18	60	20	LSPS3P20KB4	included in the unit		P-105000084-002	1
18	90	20	LSPS3P20KB3	included in the unit		P-105000084-002	2
18	120	20	LSPS3P20KB0	not needed		P-105000084-002	3
18	180	20	LSPS3P20KB0	not needed		P-105000084-002	4
20	60	20	LSPS3P20KB0	not needed		P-105000084-002	2
20	90	20	LSPS3P20KB0	not needed		P-105000017-010	2
20	120	20	LSPS3P20KB0	not needed		P-105000017-004	3
20	180	20	LSPS3P20KB0	not needed		P-105000017-004	4

The system configuration includes the part number for the LoadStar-PS unit + internal batteries + external batteries. For a proper system configuration, pls select the required kW load (from 1 to 20kW) and the duration needed(from 60 to 180 minutes), then select the LoadStar-PS unit, internal batteries (if needed) and external batteries (if needed).

Example 1: 5kW 3h system : LoadStar-PS unit LSPS1P5KB0 + internal batteries P-103003010-002 + external batteries, one cabinet P-105000084-002

Example 2: 16kW 1h system: LoadStar-PS unit LSPS3P20KB3 (internal batteries are already included) + external batteries, one cabinet P-105000084-002