HOPPECKE
POWER FROM INNOVATION

Similar to the illustration

grid | power VR X and VR X-FT

Valve regulated lead-acid batteries

Typical applications:

- Uninterruptible power supply (UPS)
- Telecommunications
  - Mobile phone stations
  - BTS-stations
  - Off-grid/on-grid solutions
- Power supply systems
- Emergency lighting

Your benefits:

- Maintenance-free regarding water refilling – due to innovative Gel-ESS technology
- Increased energy and power density – due to optimized electrochemistry
- Optimal space utilization – due to horizontal arrangement
- Increased short-circuit safety even during assembly – by using HOPPECKE system connectors
- Easy assembly and installation – battery lid with integral handle
- Maximum compatibility – Dimension VR X-FT correlates with 19"- and 23"-standards

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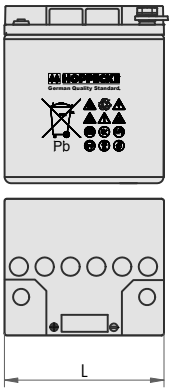
Type overview grid | power VR X and VR X-FT

Capacities, dimensions and weights

Type	C_{10}/1.80 V Ah	C_5/1.75 V Ah	C_3/1.70 V Ah	C_1/1.70 V Ah	$C_{1/2}$/1.65 V Ah	$C_{1/6}$/1.65 V Ah	Weight kg	Length L mm	Width W mm	Height H mm	Fig.
grid | power VR X 12-57	57	54	50	38	31	22	19.0	207	177	230	A
grid | power VR X 12-63	63	61	59	50	42	30	23.3	229	177	230	B
grid | power VR X 12-68	68	66	64	55	49	36	25.7	229	177	230	B
grid | power VR X 12-88	88	89	85	68	54	38	30.8	344	177	230	C
grid | power VR X 12-102	102	97	91	74	64	47	33.6	344	177	230	C
grid | power VR X 12-114	114	109	104	89	76	53	38.7	344	177	230	C
grid | power VR X 12-142	142	140	134	108	88	61	46.2	498	177	230	D
grid | power VR X 12-153	153	146	138	112	97	70	48.2	498	177	230	D
grid | power VR X 12-166	166	158	150	125	106	71	53.3	498	177	230	D
grid | power VR X-FT 12-90	88	84	79	65	55	39	32.5	393	105	265	E
grid | power VR X-FT 12-115	113	104	97	77	63	45	36.4	541	125	217	F
grid | power VR X-FT 12-170	168	156	142	104	81	59	52.3	541	125	302	F
grid | power VR X-FT 12-180	177	171	164	132	106	70	59.0	541	125	302	F

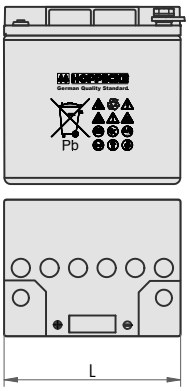
C_{10}, C_5, C_3, C_1, $C_{1/2}$ and $C_{1/6}$ = Capacity at 10 h, 5 h, 3 h, 1 h, 1/2 h and 1/6 h discharge

Fig. A



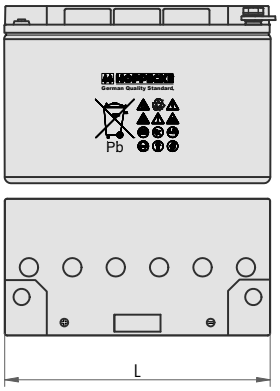
grid | power VR X 12-57

Fig. B



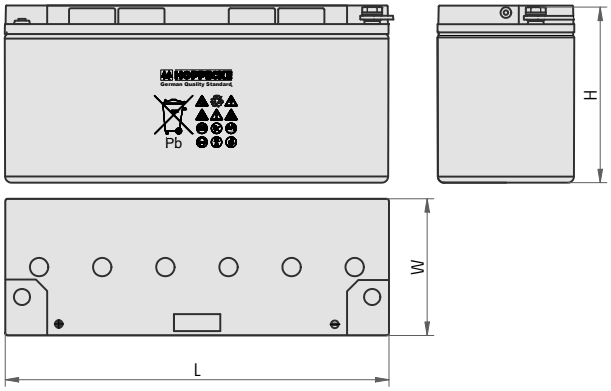
grid | power VR X 12-63 -
grid | power VR X 12-68

Fig. C



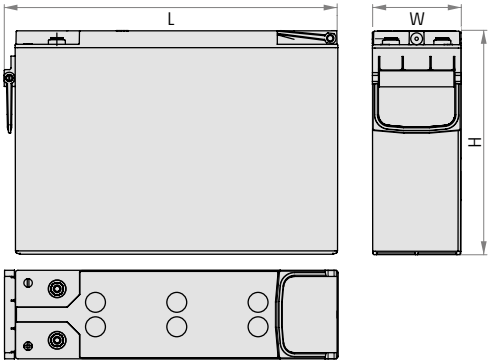
grid | power VR X 12-88 -
grid | power VR X 12-114

Fig. D



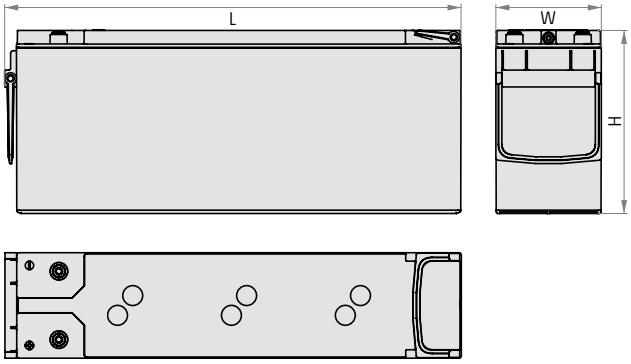
grid | power VR X 12-142 -
grid | power VR X 12-166

Fig. E



grid | power VR X-FT 12-90

Fig. F



grid | power VR X-FT 12-115, 12-170, 12-180

Design life: 12 years (according to EUROBAT)

Optimal environmental compatibility – closed loop for recovery of materials in an accredited recycling system

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