

data sheet

trak|systemizer dynamics 48V / 300 Ah (WEIDEMANN)

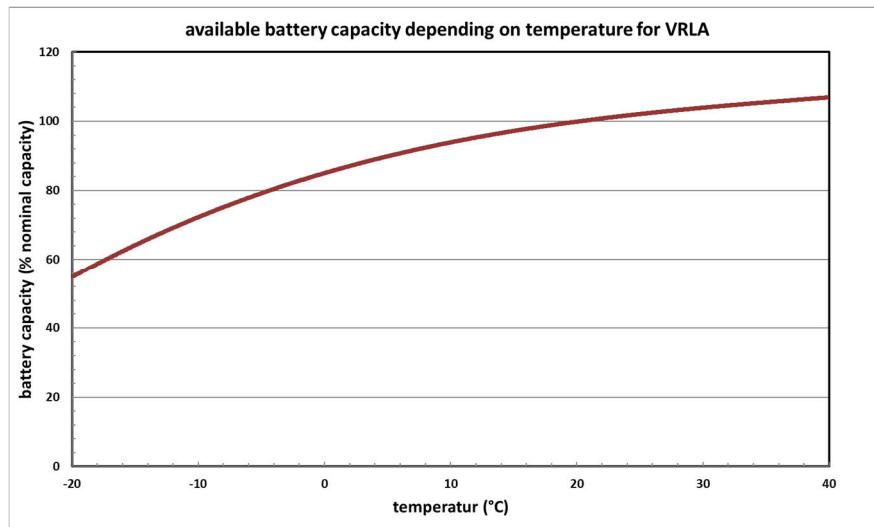
1 Technical information

technology:	valve-regulated-lead-acid battery (maintenance-free and leak-proof)
nominal voltage:	48V (24 cells a 2V)
capacity C5 (Uf = 1,70 V/C, T = 30°C):	303 Ah
capacity C5 (Uf = 1,60 V/C, T = 20°C):	297 Ah (System- / Zelleinstufung)
capacity C10 (Uf = 1,60 V/C, T = 20°C):	312 Ah
cell dimensions:	89 L x 182 B x 395 H
cell weight:	21,2 kg (Lead content weight: 16,957 kg)
cell conector:	cable connector Ø 50 mm ² , 120 mm
pol screw:	M8 x 22, end connection M8 x 26
plug device:	Rema 160 (DIN VDE 0623-589)
max. discharge current up to Uf=1,60 V/C :	923 A – 3 min
system dimensions [L x W x H]:	918 L x 535 B x 561 H (incl. Onboard-Charger)
system weight:	575 kg
max. discharge depth:	70% C ₅
suitable for opportunity charging:	yes
suitable for rapid charging:	yes
energy efficiency η_{wh} :	up to 85%
cell operating temperature	-20 °C up to +45 °C
max. temperature development during continuous discharge/charge operation:	approx.+ 10K against environment (temperature stable)
ventilation requirement	25% compared to sealed lead-acid batteries
reloading interval during storage:	3 month at 20°C
energy recuperation:	U ≤ 2,40 V/cell: no current limitation required U > 2,40 V/cell: max. permitted current 1A/100Ah
battery tray:	Steel (lacquered/powder-coated), designed for vertical cell installation with convection
charger	Onboard-Ladegerät E230 G48/40A <i>* Outdoorhousing IP54</i>
charging characteristic:	IU[I]0U, adapted to battery technology and application
charging time (main charge):	approx. 6,5 h
charging time (post charge):	approx. 9,5 – 10 h (all 10 nominal capacity flow rates)
application	- traction applications with recurring high discharge rates > 0,8 x C5 in relation to the used PzS capacity - traction applications with temperature problems - applications with a high degree of contamination or the risk of electrolyte contamination - applications that place high demands on the tilt resistance of the storage tank - applications with intensive opportunity charges to extend the range - use of complex installation spaces in the vehicle

2 Battery illustration



3 temperature behaviour



4 open-circuit voltage

open-circuit voltage vs. depth of discharge (DOD)
Trak|systemizer dynamics 300 Ah, C5

