

# sealed maintenance-free lead-acid **TECHNOCELL** battery **TCL** series



Batteries made in **AGM technology** - electrolyte is absorbed in highly porous fiber glass separators placed between the plates. One-way, self-regulating pressure relief valves prevent the case from blowing up, by preventing excessive buildup of pressure in the cells. They have a low internal resistance, which means a longer working time.

## TCL 200-12

### MAIN APPLICATIONS

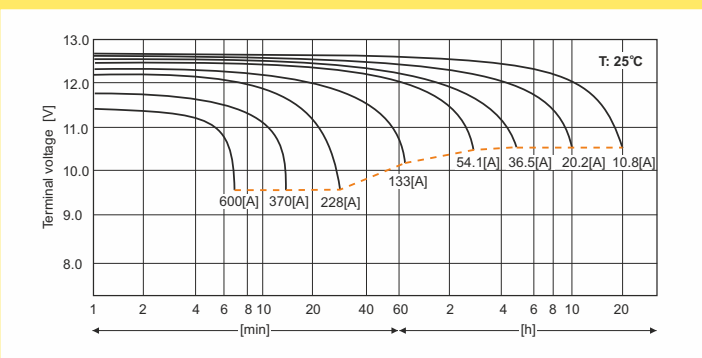
- uninterruptible power supplies
- cash registers and fiscal printers
- telecommunication PABX
- marine
- fire and security systems
- emergency lighting systems
- golf-carts, wheelchairs
- solar powered systems

### TECHNICAL DATA

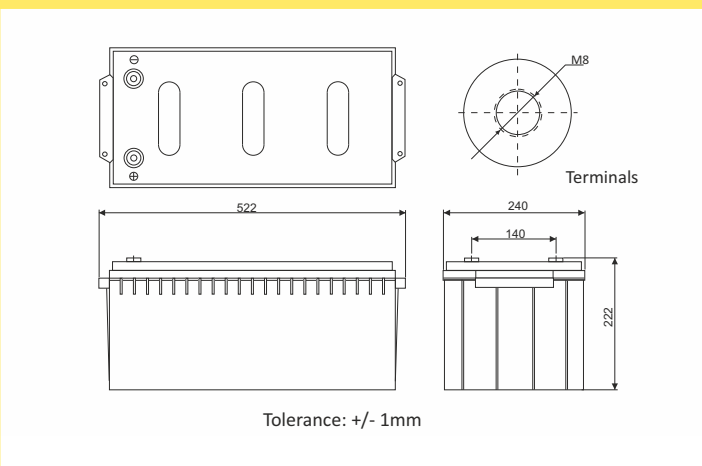
Nominal voltage	12 V
Nominal capacity	200Ah/C <sub>10</sub> 1,80V/cell @25°C
Designed life	6-8 years @ 25°C 10-12 years @ 20°C according Eurobat, Long Life group
Weight	~ 61,5 kg
Internal resistance	~ 3,0 mΩ*
<b>Dimensions</b>	
Height	222 mm
Length	522 mm
Width	240 mm
<b>Charging voltage @ 25°C</b>	
Standby use	13,6 V - 13,8 V (-18mV/°C)
Cycle use	14,6 V - 14,8 V (-24mV/°C)
<b>Charging current</b>	
Recommended	20,0 A
Maximum	50,0 A
Max. discharge current (5s)	2400 A
<b>Ambient nominal temperature range</b>	
Storage	-20°C - 60°C
Charge	0°C - 50°C
Discharge	-20°C - 60°C
<b>Container material</b>	
Standard	ABS UL 94-HB
Optional	ABS UL 94-V0

\*for a fully charged battery

### DISCHARGE CHARACTERISTICS



### DIMENSIONS



### Constant current discharge (Current [A], 25 [°C] / 77 [°F])

U <sub>f</sub> [V/cell]	Discharge time										
	10 min	15 min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1,75	428	348	221	131	75,1	54,1	42,7	36,5	24,1	20,2	10,8
1,70	448	359	222	133	76,2	54,7	43,0	36,8	24,3	20,4	10,8
1,65	466	367	226	134	76,8	55,5	43,5	37,2	24,5	20,6	10,9

### Constant power discharge (Power [W/cell], 25 [°C] / 77 [°F])

U <sub>f</sub> [V/cell]	Discharge time										
	10 min	15 min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1,75	791	643	411	249	144	104	81,9	70,0	47,0	38,8	21,3
1,70	809	647	413	251	145	105	82,4	70,4	47,4	39,2	21,4
1,65	832	655	413	253	146	105	83,1	71,0	47,6	39,6	21,5

U<sub>f</sub> - Final voltage

# TECHNOCELL

www.emu.com.pl



Help restore balance in nature.  
Recycle the used battery.