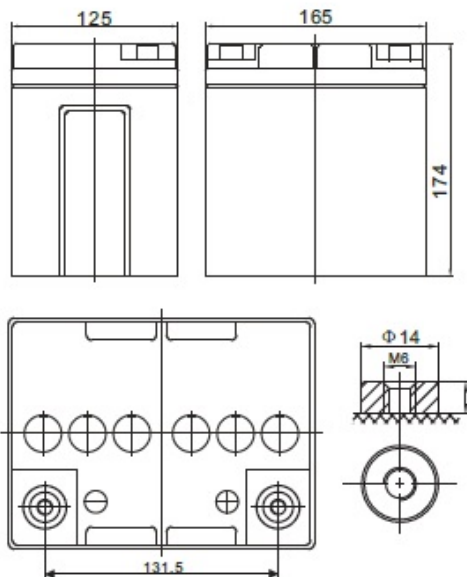




Nominal voltage	12 V	
Nominal capacity	28 Ah @ C20 to 1,75 V/cell	
Dimensions	Length	165 mm
	Width	125 mm
	Height / Total height	174 / 174 mm
Weight	~ 9,3 kg	
Technology	VRLA (Valve Regulated Lead Acid) AGM (Absorbent Glass Mat)	
Design life time	10-12 years (standby use)	
Internal resistance	~ 11,0 mΩ (full charged)	
Operating temperature range	Discharge	-20°C ~ +60°C
	Charge	0°C ~ +50°C
	Storage	-20°C ~ +60°C
Maximum discharge current	310 A (5 sec.)	
Short circuit current	1 400 A	
Recommended maximum charging current	8,4 A	
Charging voltage	Standby use	13,7 ~ 13,9 VDC
	Cycle use	14,6 ~ 14,8 VDC
Self discharge	Monthly is less than 3% at 25°C	
Container material	ABS UL94HB (optional UL94-V0)	
Terminal types	Internal thread M5 (breaking torque 6-7Nm)	



CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

Voltage / Time	5 min	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
9.6 V	112,00	73,00	55,00	32,00	19,60	10,91	8,02	6,68	5,20	3,64	2,81	1,45
10.0 V	106,00	69,50	52,60	30,70	18,90	10,57	7,77	6,48	5,08	3,56	2,77	1,44
10.2 V	100,00	65,90	50,10	29,40	18,10	10,20	7,50	6,25	4,95	3,47	2,71	1,42
10.5 V	93,90	62,20	47,50	28,00	17,30	9,79	7,20	6,00	4,80	3,36	2,65	1,40
10.8 V	87,60	58,50	44,80	26,50	16,50	9,36	6,88	5,73	4,63	3,24	2,58	1,38
11.1 V	81,30	54,70	43,01	25,44	15,84	8,98	6,60	5,50	4,44	3,11	2,48	1,32

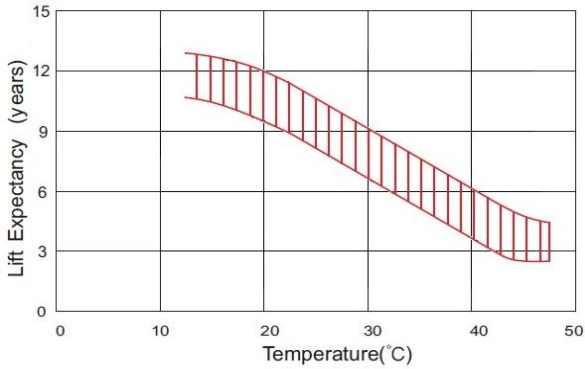
CONSTANT POWER DISCHARGE CHARACTERISTICS (W at 25°C)

Voltage / Time	5 min	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
9.6 V	1248,0	810,0	630,0	370,2	220,2	144,0	96,0	80,0	62,4	43,7	33,1	16,8
10.0 V	1170,0	762,0	595,8	351,6	210,6	139,8	93,6	78,0	61,2	42,8	32,4	16,5
10.2 V	1098,0	714,0	561,6	332,4	201,0	135,0	91,2	76,0	60,0	42,0	31,8	16,2
10.5 V	1020,0	666,0	526,8	313,2	190,8	129,6	86,4	72,0	59,4	41,6	31,5	16,0
10.8 V	942,0	624,0	492,0	294,0	180,6	124,2	82,8	69,0	58,8	41,2	31,2	15,9
11.1 V	864,0	576,0	472,3	282,2	173,4	117,6	79,5	66,2	56,4	39,5	29,9	15,2

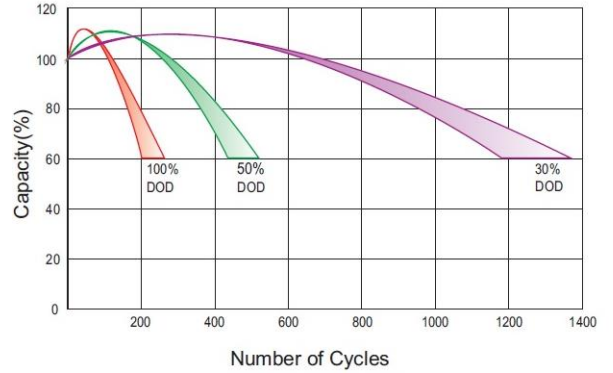
According with:

PN-EN 60896-21:2007	ISO 9001
PN-EN 60896-22:2007	ISO 14001
PN-EN 61056-1:2013	
PN-EN 61056-2:2013	
PN-E-83016:1999	

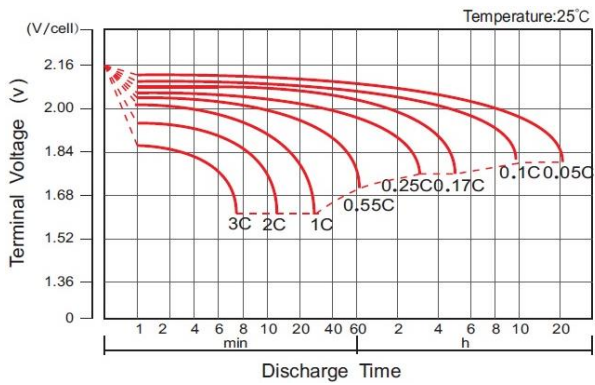
EFFECT OF TEMPERATURE ON LONG TERM LIFE



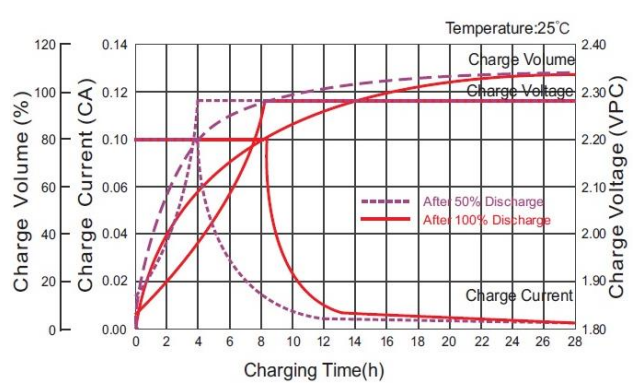
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



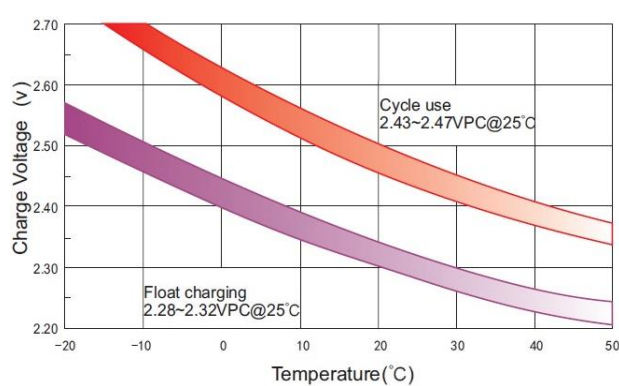
DISCHARGE CHARACTERISTICS



CHARGE CHARACTERISTIC FOR STANDBY USE



RELATIONSHIP BETWEEN CHARGING VOLTAGE AND TEMPERATURE



STORAGE CHARACTERISTICS

