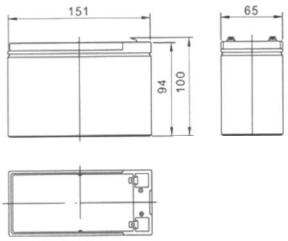
ICAL®

IP1272 - 12V7.2AH

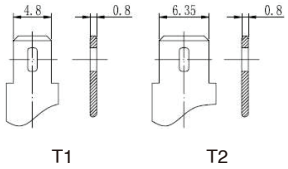
Standard Lead Acid



Dimensions



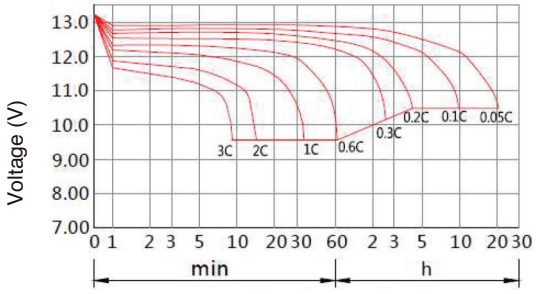
Terminal



■ Specifications

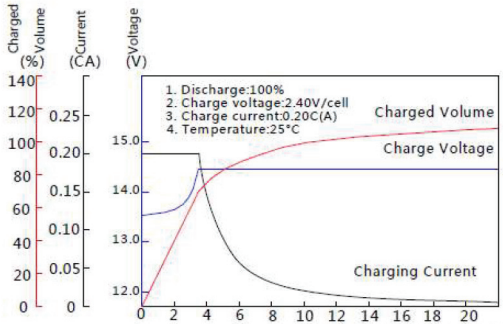
Nominal Voltage		12V
Capacity (25°C)	20HR (10.5V)	7.2Ah
	10HR (10.5V)	6.7Ah
	1HR (9.60V)	4.68Ah
Dimensions	Length	151 ± 1mm (5.94inch)
	Width	65 ± 1mm (2.56inch)
	Height	94 ± 1mm (3.70inch)
	Total Height	100 ± 1mm (3.90inch)
Approx. Weight		2kg (4.40lbs) ± 5%
Terminal type		T1/T2
Internal resistance (Fully charged, 25°C)		Approx. 24mΩ
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Floating charging voltage (25°C)		13.60 to 13.80V Temperature compensation: -18mV/°C
Cycling charging current		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		2.16A
Terminal material		Copper
Maximum discharging current		108A (5sec.)
Design floating life (20°C)		10 years

■ Discharge Characteristics (25°C)



Discharge time

■ Charging Characteristics (25°C)



Charging time (hours)

■ Constant Current Discharge Characteristics (A, 25°C)

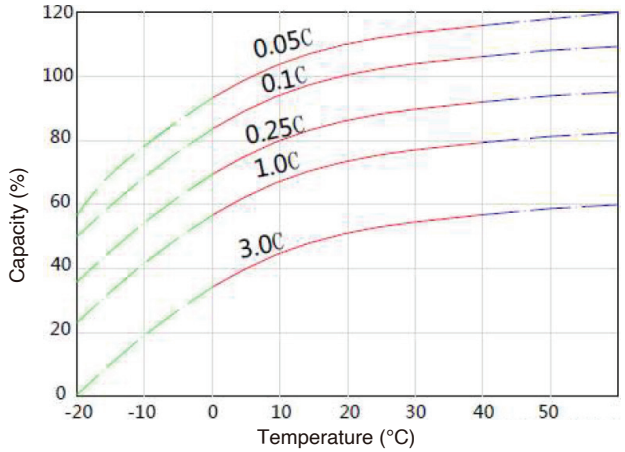
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	27.4	17.3	13.7	7.63	4.68	2.56	1.84	1.47	1.25	0.68	0.37
9.90V	26.5	16.8	13.4	7.48	4.61	2.54	1.83	1.46	1.24	0.68	0.36
10.2V	25.4	16.1	12.9	7.25	4.49	2.52	1.81	1.45	1.23	0.67	0.36
10.5V	24.4	15.4	12.4	7.07	4.40	2.48	1.80	1.44	1.22	0.67	0.36
10.8V	23.0	14.5	11.8	6.82	4.27	2.42	1.75	1.40	1.19	0.56	0.35

■ Constant Current Discharge Characteristics (Watt, 25°C)

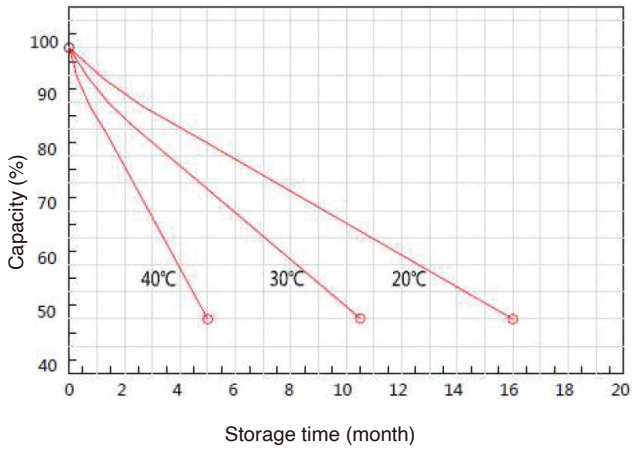
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	305	195	156	87.5	54.2	29.9	21.8	17.5	14.9	8.16	4.38
9.90V	296	189	152	85.7	53.4	29.7	21.7	17.4	14.8	8.12	4.37
10.2V	284	181	147	83.1	52.0	29.5	21.5	17.3	14.7	8.08	4.35
10.5V	272	173	142	81.1	51.0	29.0	21.4	17.2	14.6	8.04	4.32
10.8V	256	164	134	78.1	49.4	28.3	20.7	16.6	14.2	7.87	4.23

Note: The above characteristics data can be obtained within three charge/discharge cycles.

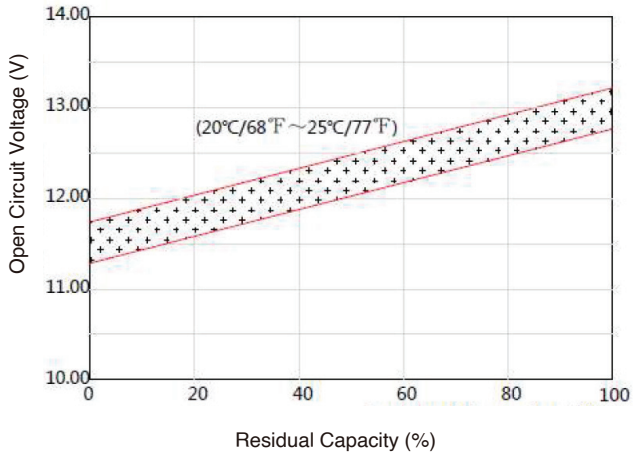
Effect of Temperature on Capacity



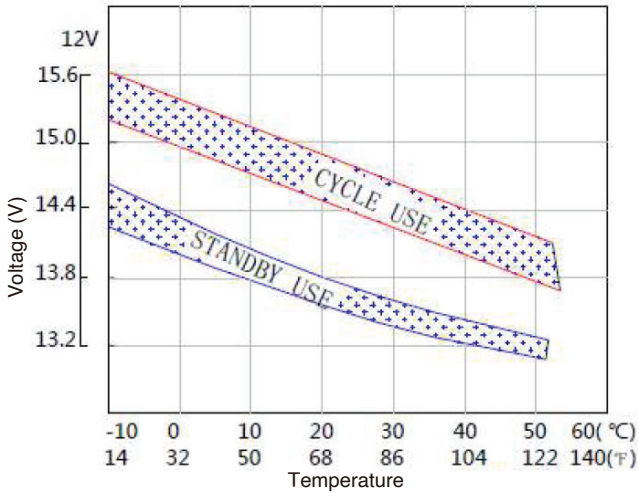
Self-discharge Characteristic



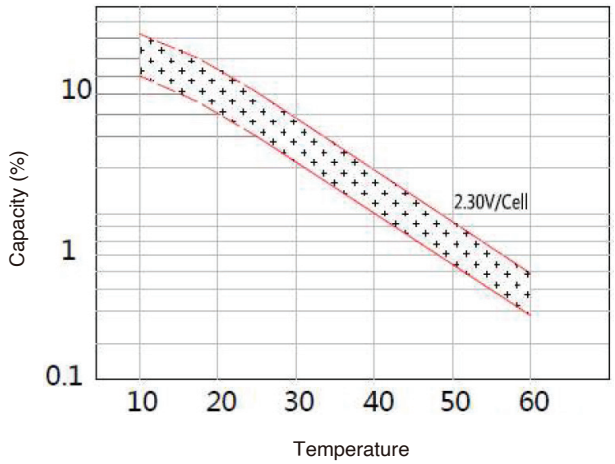
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D (25°C)

