

LFPG1280 (12V80Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	80.0Ah
	5HR(10.5V)	66.0Ah
	1HR(9.60V)	49.2Ah
Dimension	Length	306mm ± 2 (12.05inch)
	Width	169mm ± 2 (6.65inch)
	Height	215mm ± 2 (8.46inch)
	Total Height	215mm ± 2 (8.46inch)
Approx. Weight		27.5kg (60.6lbs) ± 4%
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 7 mΩ
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 93%
	6 month	Remaining Capacity: 85%
	12 month	Remaining Capacity: 72%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 60°C
	Charge	-10°C ~ 60°C
	Storage	-20°C ~ 60°C
Float charging voltage(25°C)		13.60 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.10 to 14.40V Temperature compensation: -30mV/°C
Maximum charging current		20A
Terminal material		Copper
Maximum discharge current		600A(5 sec.)
Designed floating life(20°C)		15 years

- ◆ Gelled electrolyte technology;
- ◆ PVC separator;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	158	125	87.3	49.2	27.9	19.7	15.6	13.6	9.46	8.32	4.73
9.90V	154	122	84.7	47.7	27.4	19.5	15.5	13.4	9.37	8.24	4.65
10.2V	147	117	81.2	45.8	27.0	19.4	15.3	13.3	9.28	8.16	4.56
10.5V	141	112	77.7	43.8	26.6	19.2	15.2	13.2	9.20	8.08	4.46
10.8V	133	105	73.3	41.3	26.0	18.6	14.7	12.8	8.92	8.00	4.36

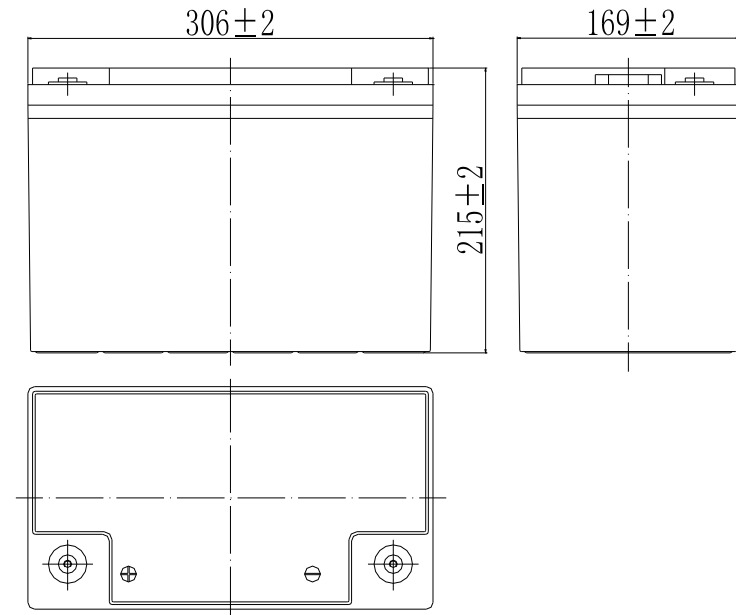
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	1740	1400	990	561	324	65	184	160	113	100	57.1
9.90V	1688	1358	960	544	319	229	182	159	112	98.9	56.1
10.2V	1618	1302	920	522	315	227	180	157	111	97.9	55.0
10.5V	1549	1246	881	499	310	225	179	156	110	97.0	53.8
10.8V	1462	1176	831	471	302	218	173	151	107	96.0	52.6

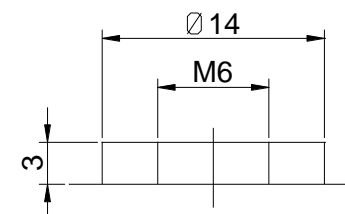
Note: The above characteristics data can be obtained within three charge/discharge cycles.



Dimensions



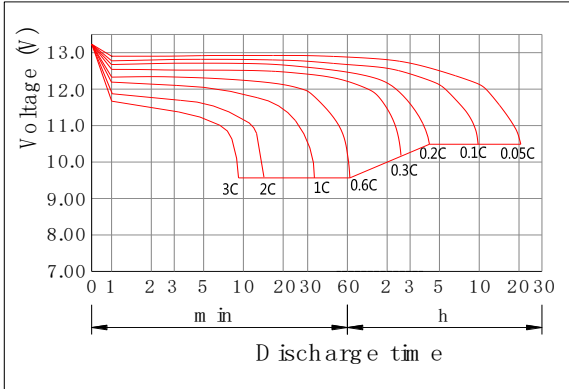
Terminal



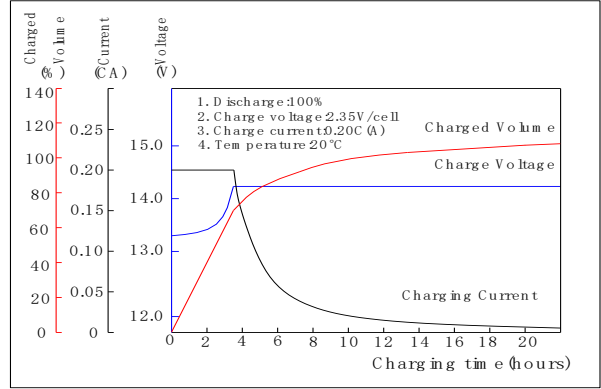
Terminal T9

LFPG1280 (12V80Ah)

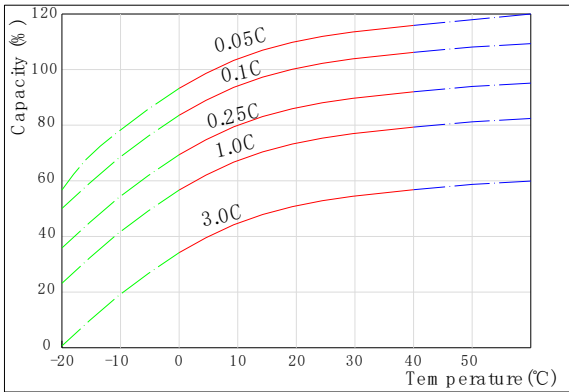
Discharge Characteristics(25°C)



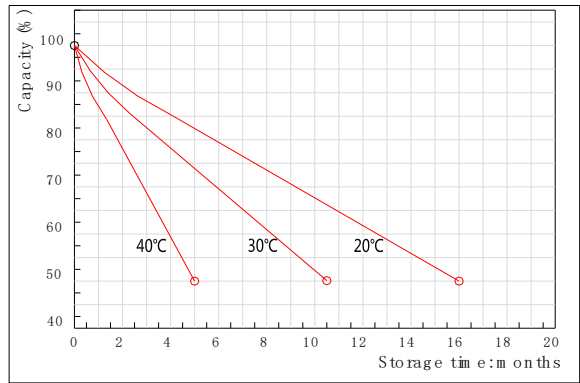
Charging Characteristics(25°C)



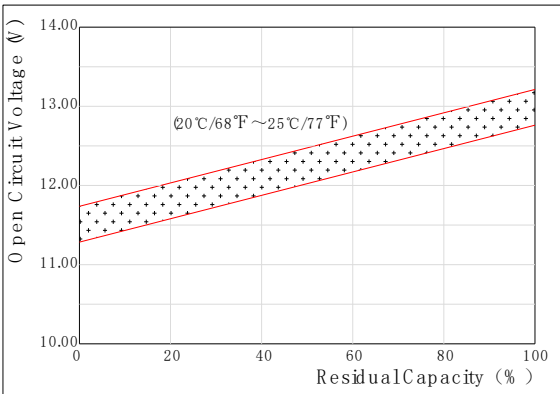
Effect of Temperature on Capacity



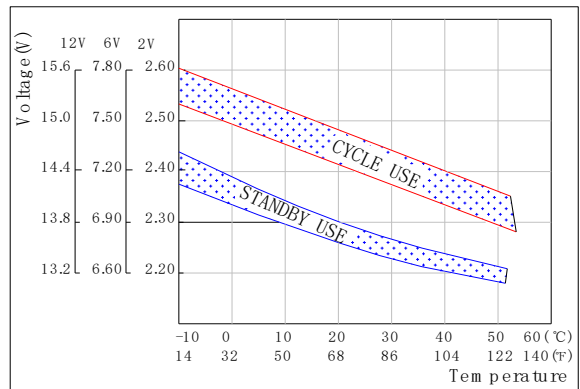
Self-discharge Characteristics



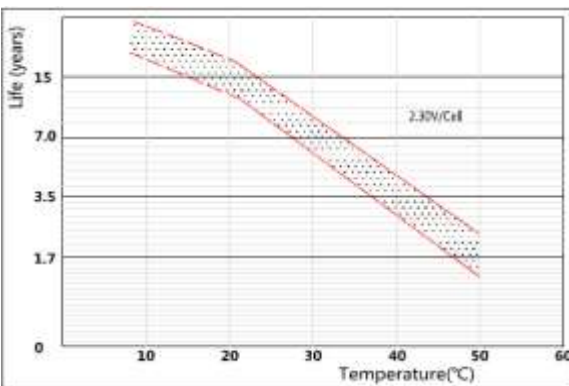
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

