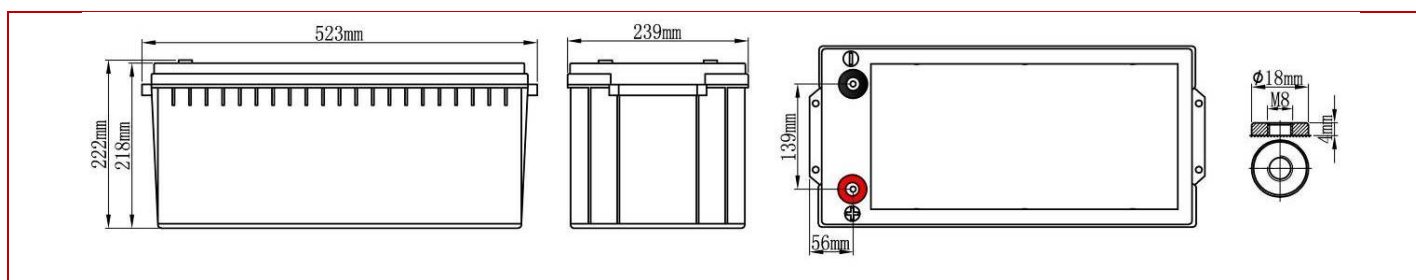


DATASHEET
DCC 280-12
12V 280AH

LEAD CARBON BATTERY
EUROBAT 2022 CLASSIFICATION: 15 Years – Very Long Life
Designed in accordance with IEC 60896-21/22
SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ± 3mm				Weight	Short-Circuit Current	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
12V	284AH	520mm	268mm	220mm	224mm	79kg	-	≈2.6 mΩ	M8	ABS UL94-V0

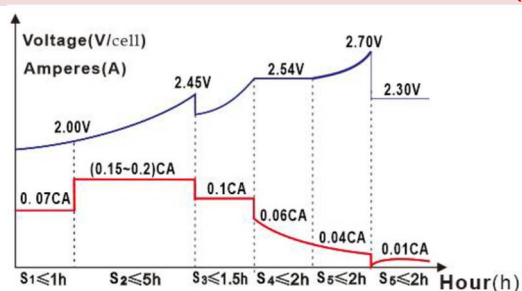
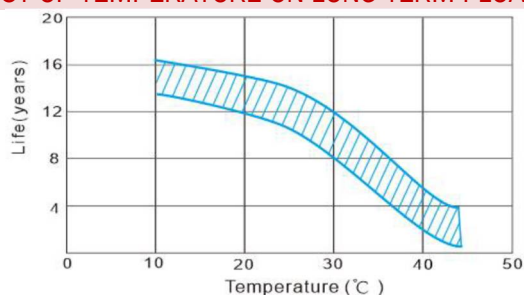
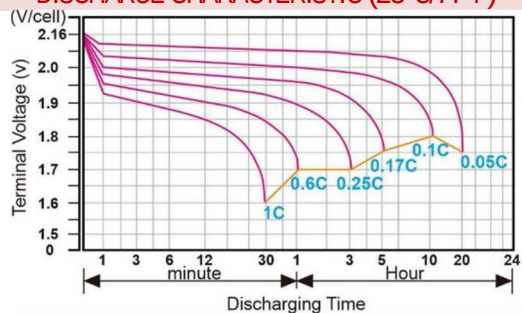
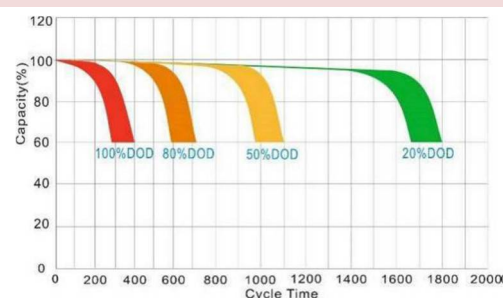
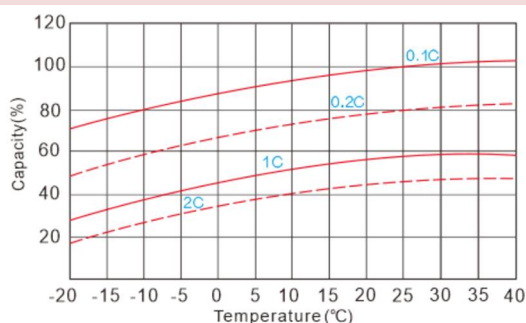
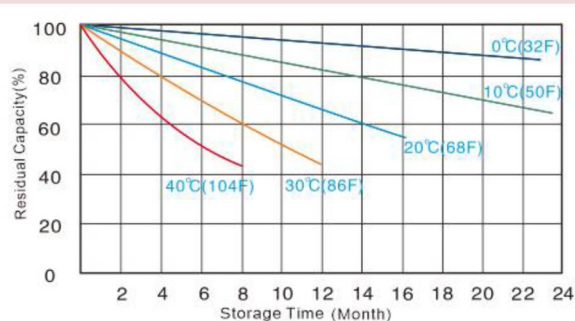

CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (13.5A)	284AH
10 hour rate (27.0A)	270.0AH
5 hour rate (45.9A)	230.0AH
3 hour rate (67.5A)	204.0AH
1 hour rate (148.5A)	151.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

Wide Operating Temp. Range
-20°C ~ 50°C

Cycle Application
1. Limit initial current less than 54A.
2. Charge until battery voltage (under charge) reaches 14.6V to 14.8V at 25°C(77°F).
3. Hold at 14.6V to 14.8V until current drop to under 1.62A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 54A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/°C.

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation.

CHARGE CHARACTERISTIC CURVE FOR CYCLE USE(IIUU)

EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE

DISCHARGE CHARACTERISTIC (25°C/77°F)

CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

CAPACITY CURVE AT DIFFERENT TEMPERATURE

SELF DISCHARGE CHARACTERISTICS


End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20

Constant Current Discharge Data Sheet (@25°C) Unit: A

9.6V	513	417	231	186	151	118	100	70	48.6	32.9	27.7	14.5
9.9V	493	401	224	179	149	117	99	69	47.6	32.2	27.6	14.4
10.2V	471	384	214	174	146	116	98	68	46.5	31.5	27.5	14.3
10.5V	451	367	205	168	144	115	95	65	46.0	30.6	27.2	14.2
10.8V	431	350	195	159	141	114	93	63	44.2	30.0	27.0	14.1

Constant Power Discharge Data Sheet (@25°C) Unit: W

9.6V	5892	4790	2896	2256	1743	1351	1096	780	541	385	311	164
9.9V	5673	4613	2788	2169	1690	1324	1080	771	533	379	308	163
10.2V	5497	4469	2680	2082	1671	1297	1063	756	525	372	306	162
10.5V	5205	4232	2539	1977	1631	1266	1038	741	512	368	302	160
10.8V	4915	3996	2399	1870	1592	1232	1014	726	497	361	298	155