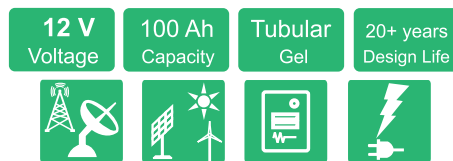


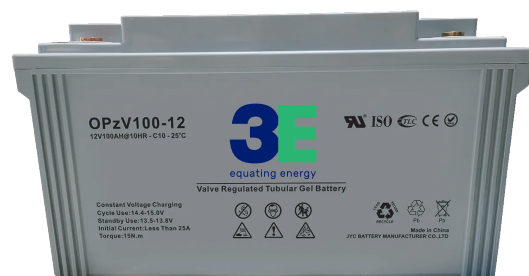
3E Greenstack Series

The OPzV series adopts an Immobilized Gel and Tubular Positive Plate technology. It offers high reliability and stable performance. By using die-casted positive grid and patented active material formula, it exceeds the DIN standard values and offer 20+ years design life in float service. It is very suitable for cyclic use under extreme operating conditions. This series is recommended for telecom outdoor applications, renewable energy systems and other harsh environment applications.



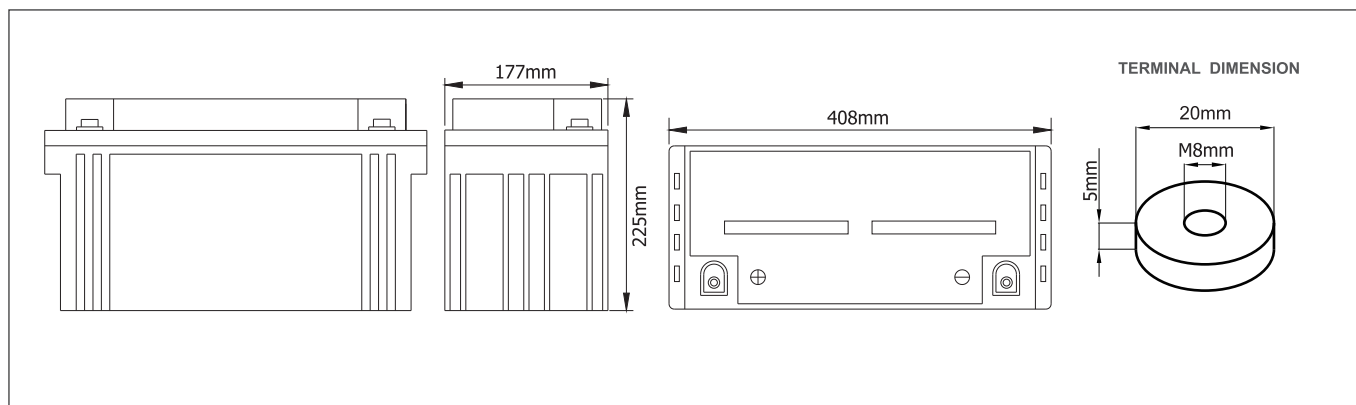
SPECIFICATIONS

Nominal Voltage (V)	12
Designed Floating Life (20°C)	20+ Years
Nominal Capacity (20°C)	100 Ah @ C ₁₀ (to 1.80Vpc)
Demensions	L408mm×W177mm×H225mm
Approx. Weight	35.2 kg (77.6 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 8.0mOhm (fully charged @ 20°C)
Max. Charge Current	20 A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	3000 A
Self Discharge	Approx. 2% per month @ 20°C
Ambient Temperature	Discharge: -40~65°C Charge: -30~65°C Storage: -25~45°C
Float Charge Voltage (20~25°C)	13.5-13.8V (-3mV /°C/ cell)
Equalize Charge Voltage (20~25°C)	14.1-14.4V (-4mV /°C/ cell)
Container Material	ABS(UL94-V0 optional)



ISO 9001	ISO 14001	OHSAS 18001	TLC
CE	RoHS	UL	OPzV Battery

DIMENSIONS



BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (20°C)

F.V/ Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.60V	163.7	131.3	86.97	59.88	37.10	28.75	18.90	12.73	10.70
1.65V	153.4	124.2	83.85	58.11	35.90	28.13	18.50	12.53	10.50
1.70V	140.3	115.7	80.15	56.15	34.70	27.20	18.10	12.33	10.30
1.75V	128.4	106.6	74.88	53.21	33.50	26.16	17.60	12.13	10.20
1.80V	111.9	95.35	69.62	49.98	31.90	25.02	16.99	11.83	10.00
1.85V	93.12	82.55	62.01	45.57	29.50	23.36	16.19	11.33	9.570

Constant Power Discharge Characteristics: W/cell (20°C)

F.V/ Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.60V	256.7	213.0	159.8	113.5	70.90	55.33	36.80	25.16	21.10
1.65V	250.1	208.7	155.6	110.7	68.90	54.39	36.10	24.76	20.80
1.70V	237.4	200.6	150.2	107.8	67.00	52.73	35.39	24.46	20.50
1.75V	215.4	186.2	141.7	102.5	65.00	51.07	34.59	24.06	20.30
1.80V	185.3	168.8	132.9	96.82	62.10	48.79	33.38	23.46	19.90
1.85V	153.2	141.6	119.3	88.69	57.60	45.67	31.87	22.46	19.10

PARAMETERS FOR SOLAR & WIND APPLICATIONS

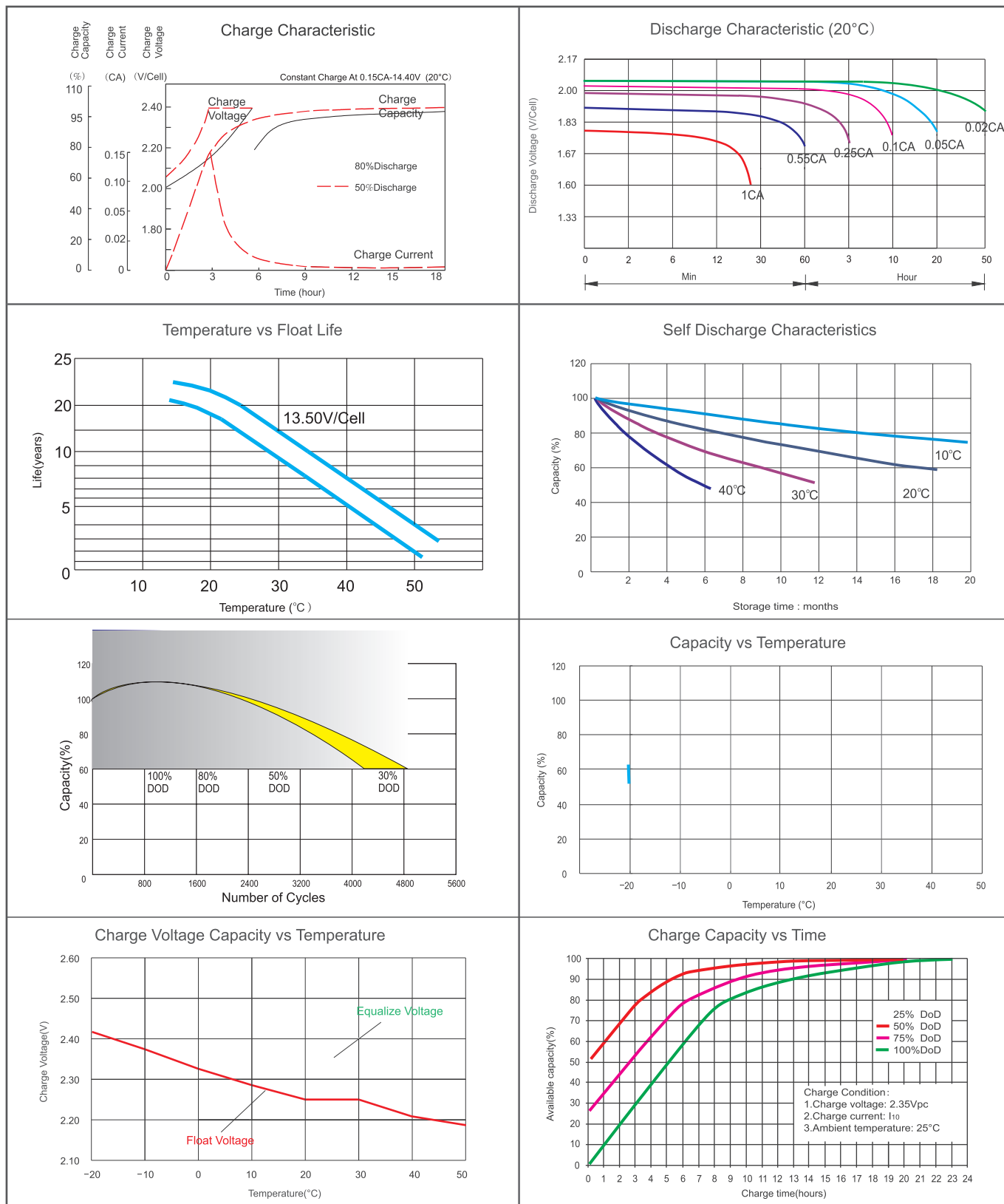
Long time discharge capacity for Solar & Wind applications

Capacity	C ₂₀ (Ah)	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)	C ₂₄₀ (Ah)
OPzV12-100	108	110	116	118	121	122	125
Final Voltage	1.80V	1.85V					

Solar & Wind applications parameters settings

Over voltage disconnect:	2.45±0.01V/cell @ 20~25°C
Regulation/equalize voltage:	2.40±0.01V/cell @ 20~25°C
Array reconnection voltage:	2.25±0.005V/cell @ 20~25°C
Float voltage setting:	2.27±0.005V/cell @ 20~25°C
Low voltage alarm voltage:	1.95±0.005V/cell @ 20~25°C
Low voltage disconnect:	1.90±0.005V/cell @ 20~25°C
Load reconnect voltage:	2.09±0.01V/cell @ 20~25°C
Temp. compensate coefficient:	-4mV/cell/°C

CHARACTERISTICS



FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current I (A)	I < 0.05C	0.05C ≤ I < 0.08C	0.08C ≤ I < 0.2C	0.2C ≤ I < 0.6C	0.6C ≤ I < 1.0C	1C ≤ I ≤ 2C
Final of Voltage	≥ 1.90 Vpc	≥ 1.85 Vpc	≥ 1.80 Vpc	≥ 1.75 Vpc	≥ 1.7 Vpc	≥ 1.6 Vpc