

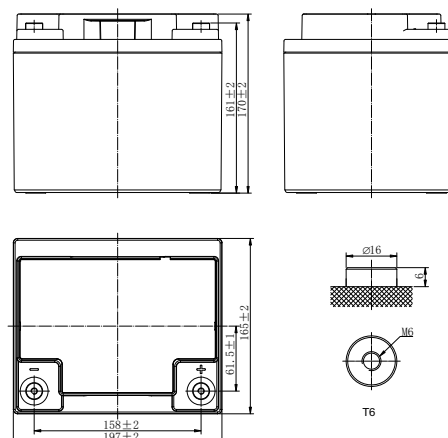
77250 LPC12V42Ah(12V46Ah/C20)

Specifications

Rated Voltage	12V		
Rated Capacity(C ₁₀ , 1.80V/cell)	42Ah		
Dimensions	Length	197±2mm	
	Width	165±2mm	
	Container Height	170±2mm	
	Total Height	170±2mm	
Approx Weight	14.6 Kg		
Terminal	T6(M6)		
Container Material	ABS		
Nominal Capacity(25°C)	46.0Ah	(20hr, 2.30A, 1.80V/cell)	
	36.8Ah	(5hr, 7.35A, 1.75V/cell)	
	33.3Ah	(3hr, 11.1A, 1.75V/cell)	
	29.8Ah	(2hr, 14.9A, 1.75V/cell)	
	26.3Ah	(1hr, 26.3A, 1.70V/cell)	
Short Circuit Current	1050A		
Internal Resistance(25°C)	≤9.0mΩ		
Operating Temp. Range	Discharge	-20 ~ 55°C	
	Charge	0 ~ 40°C	
	Storage	-20 ~ 50°C	
Nominal Operating Temp. Range	25±3°C		
Max.Charging Current(25°C)	11.25A		
Charge voltage(25°C)	Float	Charge Voltage	Temp. Coefficient
	Cycle	2.23~2.27V/cell	-3mV/cell/°C
Effect of temp. to Capacity	40°C	2.40~2.45V/cell	-5mV/cell/°C
	25°C	106%	
	0°C	80%	
Self Discharge	≤3%/month @ 25°C		



Layout



Constant Current Discharge (Amperes) at 25 °C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	90.9	67.8	56.5	47.7	36.7	27.5	22.1	13.3	10.0	7.98	6.67	5.80	4.70	3.94	2.18
1.80V/cell	105.9	79.9	65.7	55.0	41.4	30.8	24.5	14.5	10.8	8.61	7.19	6.22	5.04	4.20	2.30
1.75V/cell	115.5	85.7	69.5	57.7	43.3	32.0	25.4	14.9	11.1	8.82	7.35	6.35	5.13	4.27	2.33
1.70V/cell	125.1	91.5	73.4	60.7	45.2	33.2	26.3	15.4	11.5	9.04	7.51	6.48	5.23	4.33	2.36

Constant Power Discharge (Watts/cell) at 25 °C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	172.7	129.8	108.5	91.9	70.9	53.3	43.0	25.9	19.6	15.7	13.2	11.40	9.33	7.78	4.33
1.80V/cell	198.2	151.2	124.8	104.9	79.5	59.2	47.3	28.1	21.2	16.9	14.1	12.20	9.89	8.30	4.57
1.75V/cell	212.9	160.2	130.8	109.0	82.4	61.2	48.7	28.8	21.7	17.2	14.4	12.40	10.1	8.42	4.62
1.70V/cell	226.9	168.6	136.6	113.6	85.2	62.9	50.1	29.6	22.2	17.5	14.7	12.70	10.3	8.53	4.68

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Applications

- Electric tools
- Mobility Scooter
- Golf trolleys
- Portable lights and instruments
- Electric toys
- Portable power
- Electric wheelchair

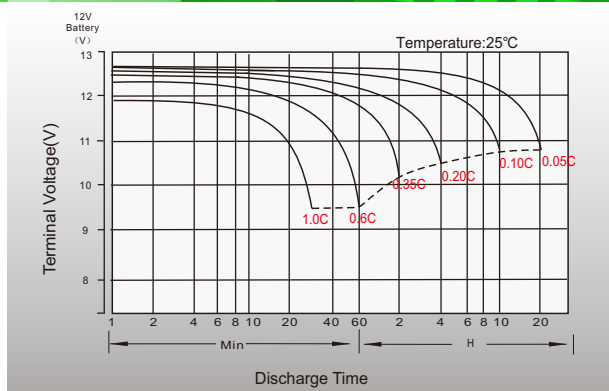
General Features

- Good cyclic property. Enhanced overcharge endurance and overdischarge recovery property
- Using oxygen recombination technology: maintenance-free
- Lower acid density, excess of electrolyte and larger distance between plates to keep battery at low temperature and slow down plate grid corrosion speed
- Unique plate group configuration, high quality AGM separator and battery management system ensure battery with a longer service life

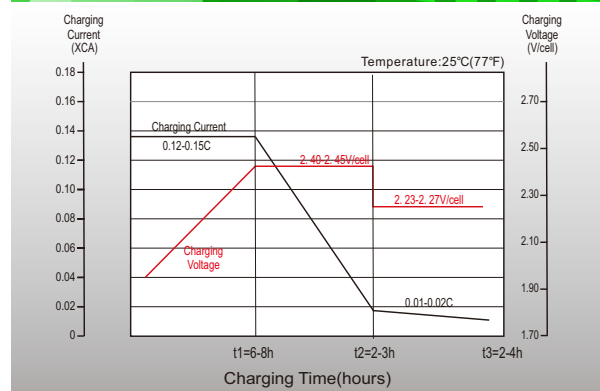
Standards

- ACC. to BCI standards
- IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

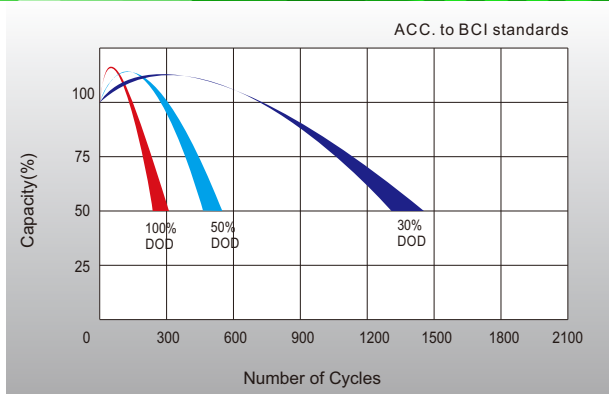
Discharge Characteristics



Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

