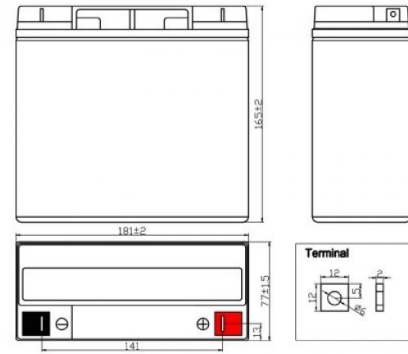


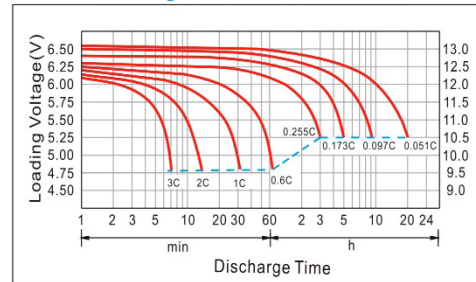
# PQC1218ST3 (12V 18Ah)



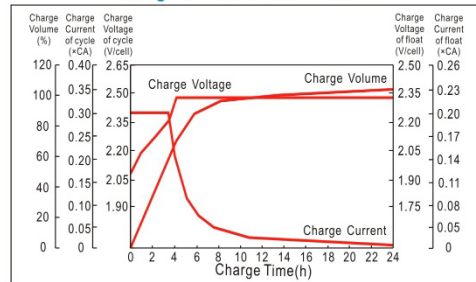
Specifications		PQC1218ST3
Nominal Voltage		12V
Rated Capacity (25°C), (20HR)		18Ah
Dimensions (mm)	Length	181
	Width	77
	Height	165
	Total Height	165
Approx. Weight (kg)		5.7 kg
Terminal		T3

Characteristics		
Capacity (25°C)	20HR (0.927A)	18.5Ah
	10HR (1.771A)	17.7Ah
	5HR (3.166A)	15.8Ah
	1HR (11.70A)	11.7Ah
	1HR (34.65A)	8.66Ah
Impedance	Fully charged battery (25°C)	Approx. 13mΩ
	Temperature dependence of capacity (20HR)	
	40°C	107%
	25°C	100%
	0°C	76%
	-15°C	56%
Self-discharge (20°C) (remaining capacity)	3 months	90%
	6 months	80%
	12 months	60%
Max. discharge current (25°C)		270A(5s)
Expected cycle life (@ DOD 80%)		450
Constant voltage charge (25°C)	Cycle	14.7~15.0V(-24mV/°C) max. current: 0.3CA
	Float	13.5~13.8V(-18mV/°C) max. current: 0.2CA

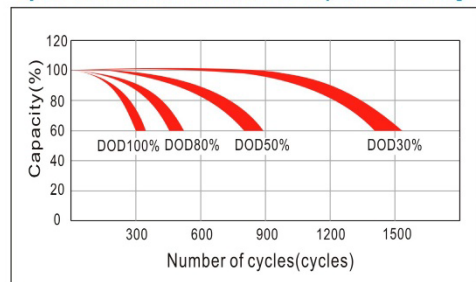
**Discharge Characteristics Curve**



**Charge Characteristics Curve**



**Cycle service life in relation to depth of discharge**



Constant Current Discharge Characteristics (A), (25°C)												
F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H	
1.60V/cell	71.01	46.53	34.65	18.45	11.70	6.592	4.801	3.238	2.144	1.836	0.983	
1.70V/cell	64.44	43.11	32.67	17.91	11.44	6.489	4.682	3.191	2.111	1.789	0.947	
1.75V/cell	57.87	40.41	30.87	17.37	11.30	6.435	4.635	3.166	2.093	1.771	0.927	
1.80V/cell	51.93	37.80	29.07	16.83	11.13	6.381	4.581	3.130	2.065	1.744	0.889	

Constant Wattage Discharge Characteristics (W/cell), (25°C)												
F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H	
1.60V/cell	128.4	84.92	63.81	35.21	23.21	13.07	9.569	6.460	4.277	3.666	1.966	
1.70V/cell	118.7	80.11	61.26	34.48	22.78	12.92	9.348	6.372	4.216	3.578	1.897	
1.75V/cell	108.0	76.44	58.40	33.73	22.51	12.83	9.262	6.327	4.183	3.545	1.862	
1.80V/cell	97.80	72.14	55.48	32.96	22.21	12.73	9.162	6.260	4.129	3.491	1.786	