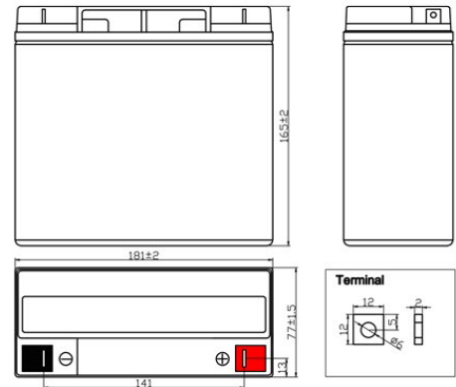


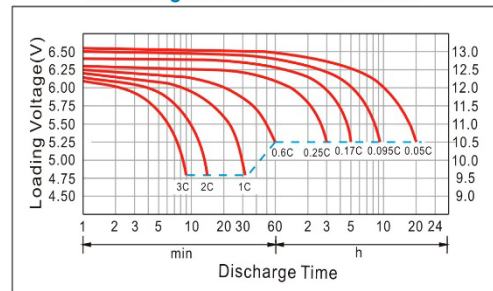
# PQH1220ST3 (12V 450W)



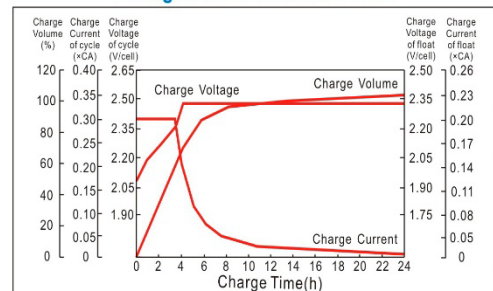
Specifications		PQH1220ST3
Nominal Voltage		12V
Rated Power (25°C) 15min-rate		450W
Dimensions (mm)	Length	181
	Width	77
	Height	165
	Total Height	165
Approx. Weight (kg)		5.8 kg
Terminal		T3

Characteristics		
Capacity (25°C)	20HR (1.035A)	20.7Ah
	1HR (1.978A)	19.7Ah
	5HR (3.536A)	17.6Ah
	1HR (12.86A)	12.8Ah
	15min-rate (38.93A)	9.73Ah
Impedance	Fully charged battery (25°C)	Approx. 10mΩ
	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)
Service life acc. to EUROBAT (25°C)		3-5 years
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

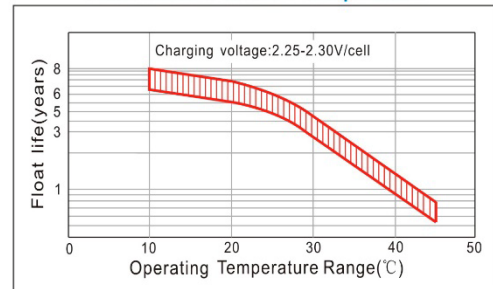
**Discharge Characteristics Curve**



**Charge Characteristics Curve**



**Float Service Life VS Temperature**



Constant Current Discharge Characteristics (A), (25°C)													
F.V/TIME	5min	8min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H	
1.60V/cell	80.87	59.22	53.49	40.20	21.97	13.33	7.507	5.361	3.616	2.394	2.050	1.097	
1.67V/cell	76.41	57.52	51.17	38.93	21.73	13.19	7.452	5.320	3.590	2.376	2.030	1.082	
1.70V/cell	73.42	55.81	49.63	37.64	21.48	13.03	7.390	5.228	3.563	2.358	1.999	1.058	
1.75V/cell	70.48	53.14	47.57	36.32	20.85	12.86	7.329	5.176	3.536	2.337	1.978	1.035	
1.80V/cell	67.47	50.63	45.00	34.83	19.97	12.68	7.267	5.115	3.495	2.306	1.948	0.994	
Constant Wattage Discharge Characteristics (W/cell), (25°C)													
F.V/TIME	5min	8min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H	
1.60V/cell	146.2	110.6	101.18	77.59	43.02	26.43	14.89	10.686	7.214	4.777	4.093	2.194	
1.67V/cell	141.5	107.8	97.23	75.26	42.62	26.21	14.80	10.613	7.161	4.740	4.056	2.167	
1.70V/cell	135.8	105.11	94.71	73.08	42.18	25.95	14.72	10.438	7.114	4.707	3.998	2.119	
1.75V/cell	131.6	100.96	91.58	70.83	40.98	25.64	14.61	10.344	7.067	4.670	3.960	2.079	
1.80V/cell	127.1	97.05	87.38	68.21	39.28	25.30	14.50	10.230	6.991	4.613	3.898	1.997	