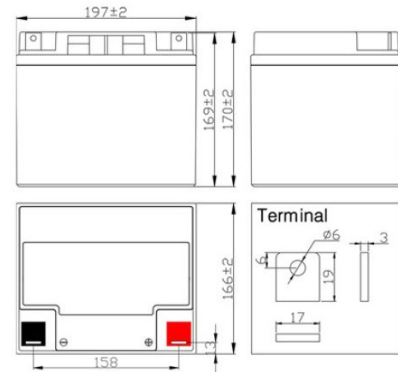
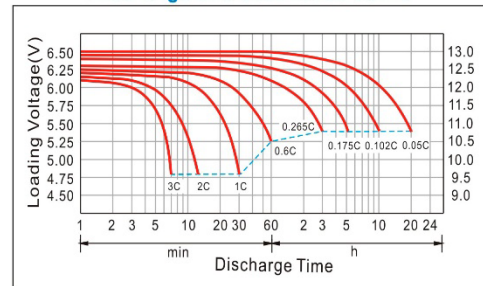


# PQC1245ST4 (12V 45Ah)



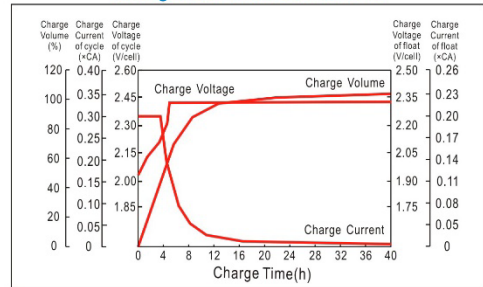
Specifications		PQC1245ST4
Nominal Voltage		12V
Rated Capacity (25°C), (20HR)		45Ah
Dimensions (mm)	Length	197
	Width	166
	Height	170
	Total Height	170
Approx. Weight (kg)		14.1 kg
Terminal		T4

**Discharge Characteristics Curve**

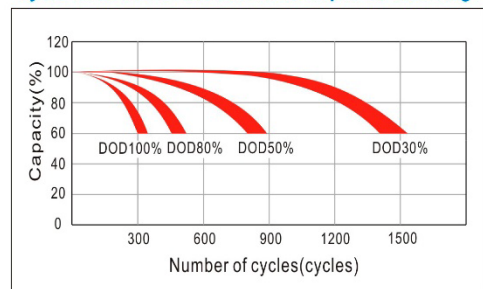


Characteristics		
Capacity (25°C)	20HR (2.453A)	49.0Ah
	10HR (4.590A)	45.9Ah
	5HR (7.875A)	39.3Ah
	1HR (28.49A)	28.4Ah
Impedance	Fully charged battery (25°C)	Approx. 8.0mΩ
Temperature dependence of capacity (20HR)	40°C	107%
	25°C	100%
	0°C	76%
	-15°C	56%
Self-discharge (20°C) (remaining capacity)	3 months	90%
	6 months	80%
	12 months	60%
Max. discharge current (25°C)		360A(5s)
Expected cycle life (@ DOD 80%)		450
Constant voltage charge (25°C)	Cycle	14.4~14.7V(-24mV/°C) max. current: 0.3CA
	Float	13.5~13.8V(-18mV/°C) max. current: 0.2CA

**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	153.0	101.9	81.63	50.63	29.25	17.48	12.42	8.316	5.589	4.770	2.610
1.70V/cell	137.3	93.83	77.63	49.28	28.85	17.26	12.20	8.118	5.499	4.703	2.543
1.75V/cell	123.8	86.63	74.03	47.93	28.49	17.03	12.06	7.997	5.445	4.658	2.498
1.80V/cell	110.3	78.98	69.53	46.08	27.90	16.80	11.93	7.875	5.364	4.590	2.453

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	263.9	181.8	148.3	94.50	56.06	34.09	24.63	16.53	11.12	9.500	5.216
1.70V/cell	242.5	170.4	143.0	92.80	55.53	33.80	24.25	16.18	10.97	9.389	5.085
1.75V/cell	221.7	159.8	137.6	91.06	55.07	33.50	24.04	15.98	10.89	9.315	4.995
1.80V/cell	200.3	147.4	130.4	88.32	54.17	33.32	23.83	15.75	10.73	9.180	4.905