

PE-GC8V

8 Volt · Deep Cycle · Flooded Lead Acid · BCI Group GC8



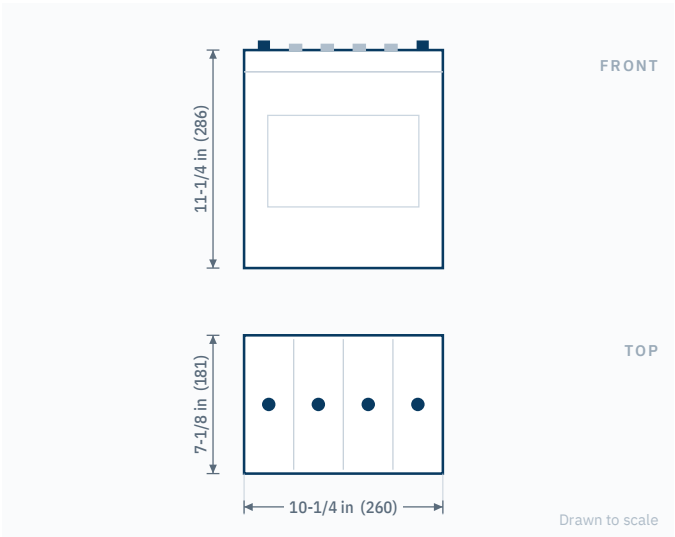
CAPACITY 20-HR	NOMINAL VOLTAGE	RESERVE @ 25 A	WEIGHT, WET	TERMINAL
170 Ah	8 V	325 min	62 lb	UTL

PRODUCT



DIMENSIONS

inches (mm)



DISCHARGE CAPACITY

amp-hours at 80 °F (26.7 °C)

DISCHARGE RATE	1 HR	2 HR	5 HR	6 HR	10 HR	20 HR	48 HR	72 HR	100 HR
Amp-hours	96	111	133	138	151	170	180	185	189

RESERVE CAPACITY

minutes of discharge at constant current

DISCHARGE CURRENT	75 A	56 A	25 A
Minutes to cut-off	82	118	325

CONSTRUCTION

BCI group size	GC8
Type	Flooded lead acid (FLA), non-sealed
Case material	Polypropylene, heat sealed
Terminal type	Molded-In UTL
Length	10-1/4 in (260 mm)
Width	7-1/8 in (181 mm)
Height	11-1/4 in (286 mm)
Weight, wet	62 lb (28 kg)
Specific gravity at full charge	1.270 minimum
Vent cap	Standard, bayonet optional

CHARGE PROFILE

4 cells

STAGE	SETPOINT	CURRENT	DURATION
Bulk	9.80 ± 0.20 V	17.0 A	to setpoint
Absorption	9.80 V	taper to 5.1 A	2–3 hr
Float, optional	8.68 V	—	unlimited
Equalize	10.20 ± 0.20 V	—	1–3 hr / 30 days
Charge time from full discharge			9–12 hr
Termination	time (2–4 hr) or dV/dt 4 mV/cell/hr		
Temperature correction	–0.112 V per 10 °F above 80 °F		

TYPICAL APPLICATIONS

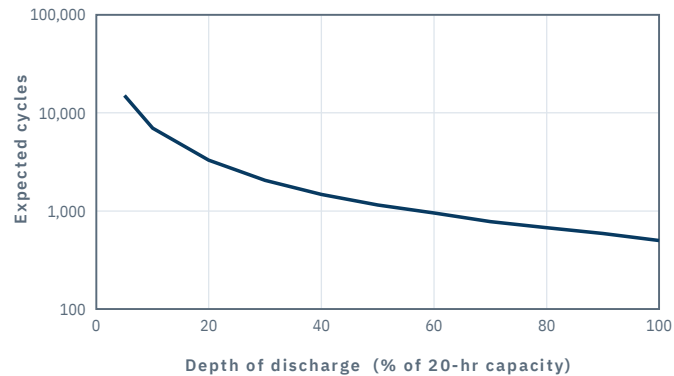
Golf cars	Floor care	Aerial work platforms	Renewable energy storage	Utility vehicles and RV
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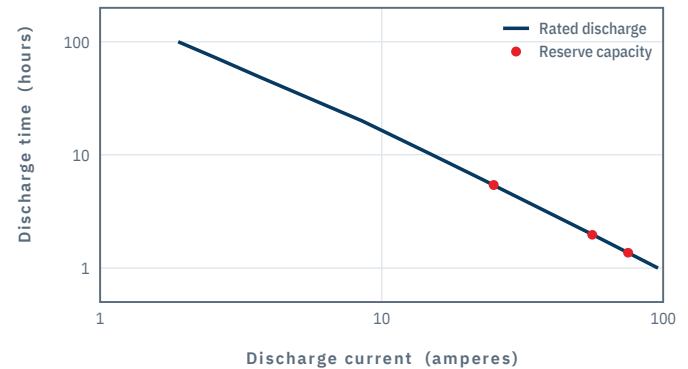
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CYCLE LIFE VS DEPTH OF DISCHARGE



DISCHARGE TIME VS CURRENT



TERMINAL TORQUE AND CONNECTION HARDWARE

shaded row applies to this model

TERMINAL TYPE	TORQUE (IN-LB)	TORQUE (FT-LB)	CONNECTION HARDWARE	NOTE
UTL	95-105	7.9-8.8	SS hexnut with lock washer	1
UT	95-105	7.9-8.8	SS hexnut with lock washer	1
Flat Block	95-105	7.9-8.8	SS hexnut with lock washer	1
Dual	95-105	7.9-8.8	SS hexnut with lock washer	1, 6
DC Marine	95-105	7.9-8.8	SS hexnut with lock washer	2
Offset "S"	100-120	8.3-10	Zn or SS bolt, hexnut, lock washer	3
Flag	100-120	8.3-10	Zn or SS bolt, hexnut, lock washer	4
Large "L"	100-120	8.3-10	Zn or SS bolt, hexnut, lock washer	4
Small "L"	100-120	8.3-10	Zn or SS bolt, hexnut, lock washer	4
Bus Lug	120-180	10-15	SS hexnut with lock washer	5
SAE	50-70	4.2-5.8	No hardware supplied	6

- 1 Stainless steel hexnut with SS split-ring lock washer (5/16" positive and negative)
- 2 Stainless steel hexnut with SS split-ring lock washer (3/8" positive, 5/16" negative)
- 3 Square-head SS or zinc-plated bolt with SS or zinc-plated hexnut and split-ring lock washer
- 4 Square- or hex-head SS or zinc-plated bolt with SS or zinc-plated hexnut and split-ring lock washer
- 5 Stainless steel hexnut with SS split-ring lock washer (1/2" positive, or 3/8" positive and negative)
- 6 No hardware supplied. Application uses SAE clamp for positive and negative tapered post

Position the lock washer between the nut and the connector, never between the connector and the lead terminal, and apply the recommended torque or enough torque to fully compress the lock washer without deforming the lead terminal. Flanged nuts and other hardware with captive washers are not recommended and their use may void the battery warranty.

PURE ENERGY DEEP CYCLE RANGE

shaded row applies to this model

MODEL	BCI GROUP	VOLTAGE	CAPACITY 20-HR	RESERVE @ 25 A	L x W x H (IN)	WEIGHT	TERMINAL
PE-GC6V	GC2	6 V	232 Ah	474 min	10-1/4 x 7-1/8 x 11-1/4	62 lb	Molded-In UTL
PE-GC8V	GC8	8 V	170 Ah	325 min	10-1/4 x 7-1/8 x 11-1/4	62 lb	Molded-In UTL
PE-GC12V	GC12	12 V	155 Ah	292 min	13-1/8 x 7-1/16 x 11-3/8	86 lb	UTL
PE-305	902	6 V	290 Ah	660 min	11-7/8 x 7-1/8 x 14-5/8	86 lb	Offset "S"
PE-L16	903	6 V	360 Ah	795 min	11-7/8 x 7-1/8 x 16-3/4	104 lb	Offset "S"

OPERATING TEMPERATURE

Charging range	0 to 120 °F (–18 to 49 °C)
Discharging range	–20 to 120 °F (–29 to 49 °C)
Below 32 °F (0 °C)	Recharge at once to avoid freezing
Above 120 °F (49 °C)	Allow to cool before recharging
Voltage correction	–0.112 V per 10 °F above 80 °F

SERVICE AND EQUALIZATION

Equalization interval	Every 30 days in active service
Manually timed chargers	Extend charge time about 3 hr
Automatic chargers	Unplug and reconnect after a charge
Absorption hold	About 3 hr at 9.80 V
Float duration	Unlimited at 8.68 V

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