

48V 2kWh and 3kWh - Monitored

Lithium Ferro Phosphate (LFP) Battery Modules

with integrated Battery Management System (BMS) and Circuit Breaker Monitoring

	2kWh	3kWh
Nominal Voltage DC	51.2V (48V nominal)	
Nominal Capacity	2kWh / 38.4Ah	3kWh / 57.6Ah
Maximum Current	60A (limited by circuit breaker)	
Charge/Discharge Cycles	10,000 @ 80% DoD, 25°C	
Maximum DC Power	1966 Watts	2949 Watts
Nominal Charge Current	19.2 Amps	28.8 Amps
Nominal Discharge Current	19.2 Amps	28.8 Amps
Round Trip / Discharge Efficiency	> =96%	
BMS over-Voltage cut-off	58.4V	
BMS under-Voltage cut-off	40V	
BMS short circuit cut-off	200 ± 30A (20ms trip)	
BMS Over-temperature Cut-off	65°C	
Charge time approximate	2 hours at 19.2A	2 hours at 28.8A
Operating Temperature	charge 0° to 55°C, discharge -20° to 60°C	
Terminal Connection	Anderson SB50 blue, UL Rated to 120A	
Alarm out Connector	6 pin Amphenol LTW connector	
Circuit Breaker Compliance	60A dual pole, non-polarised, hydraulic magnetic, IEC 60947-2	
Casing	Surfmist industrial coated steel	
IP Rating	IP50	
Battery case Dimensions (mm)	450(D) x 420(W) x 88(H)	570(D) x 420(W) x 88(H)
Weight of Module	23.7kg	35kg
Installation options	Rackmount, vertical mount. See genz.com.au for details	
Warranty	10 years. See genz.com.au for Terms & Conditions	
Lithium Composition	Lithium Ferro Phosphate (LiFePO ₄ or LFP)	
Certifications	Clean Energy Council approved battery IEC629619:2017, AS/NZS 60950	
Part Number	GC48V-040LFP-2RU-M	GC48V-060LFP-2RU-M



Since 2015, genZ Energy products continue to be the LFP battery of choice for not only mission critical defense, mining, and government infrastructure but also the choice for off-grid/hybrid homes and businesses. In addition genZ batteries are used in caravans, boats and as auxiliary batteries in SUVs and RVs.

Every genZ battery is manufactured with grade 'A' cylindrical LFP cells which are matched to a fully integrated and automatic Battery Management System (BMS) to provide industry leading safety, reliability and longevity.



LFP Deep Cycle Batteries Designed and Engineered in Australia
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