48V 2.5kWh and 3kWh

Lithium Ferro Phosphate (LFP) Battery Modules

with Advanced Data Logging and Analytics*

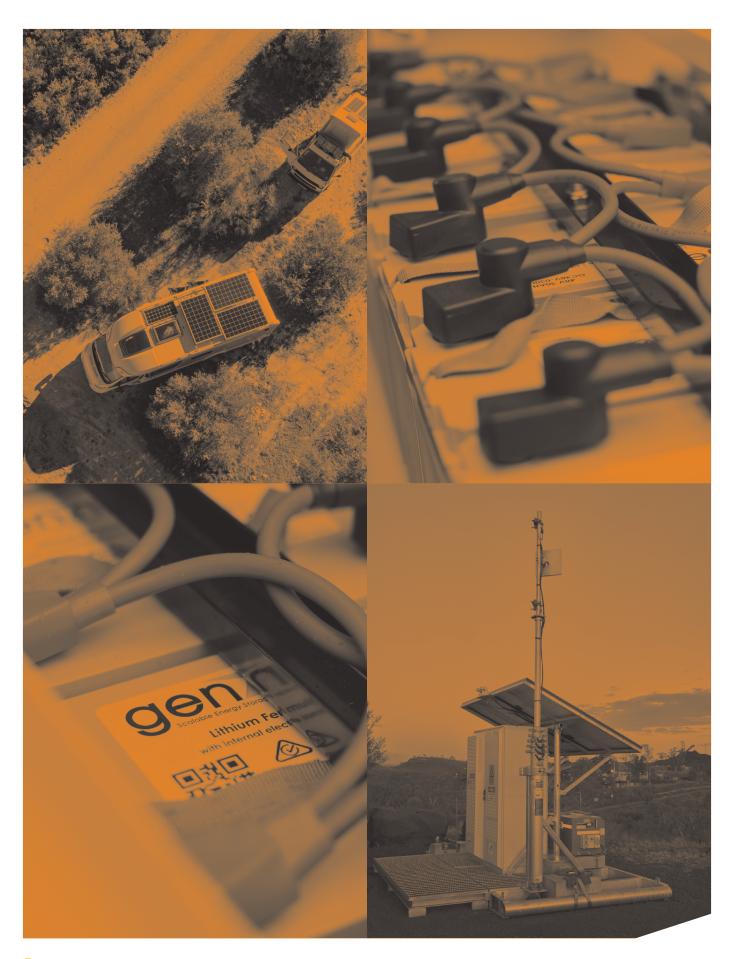|	2.5kWh	3.5kWh
Nominal Voltage DC	51.2V (48V nominal)	
Nominal Capacity	2.5kWh / 49.4Ah	3.5kWh / 68.4Ah
Maximum Current	60A (limited by circuit breaker)	
Charge/Discharge Cycles	10,000 @ 80% DoD, 25°C	
Maximum DC Power	2,529 Watts	3,000 Watts
Nominal Charge Current	25 Amps	34 Amps
Nominal Discharge Current	25 Amps	34 Amps
Round Trip / Discharge Efficiency	>=96%	
BMS over-Voltage cut-off	58.4V (configurable)	
BMS under-Voltage cut-off	40V (configurable)	
BMS short circuit cut-off	200 ± 30A (20ms trip; configurable)	
BMS Over-temperature Cut-off	65°C (configurable)	
BMS Communications	CAN Bus & RS485	
BMS Measured Data	SoC, DoD, Voltage, Current, temp, cycles, remaining capacity, cell Voltage, MOSFET operation, cell balance.	
Battery Management Analytics	Data logging, alarms; battery bank status (non standard)	
BMS Digital I/O	Configurable for integration with SCADA, telemetry, building management and industrial rectifier systems.	
BMS Additional Features	Web interface, SNMP, MODBUS, SMTP, WiFi and LTE; Additional bespoke I/O (non standard)	
Charge time approximate	2 hours at 25A	2 hours at 34A
Operating Temperature	Charge 0° to 55°C, discharge -20° to 60°C	
Terminal Connection	Anderson SB50 blue, UL Rated to 120A	
Circuit Breaker Compliance	60A dual pole, non-polarised, IEC 60947-2	
Casing	Surfmist industrial coated steel	
Ingress Protection 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	26.8kg	36.8kg
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)	
Part Number	GC48V-050LFP-2RU-01A	GC48V-068LFP-2RU-01A

*When combined with genZ Analytics Module

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Scalable Energy Storage Solutions

QSERC ISO 9001
QSERC ISO 27001
QSERC ISO 14001
QSERC ISO 45001

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