

LITHIUM FERRO PHOSPHATE BATTERY MODULES

SCALABLE ENERGY STORAGE

Specifications - 48V - 2RU

	2kWh	3kWh
Nominal voltage DC	51.2V (48V)	
Nominal capacity	38.4Ah/2kWh	57.8Ah/3kWh
Maximum current	60A (limited by circuit breaker)	
Maximum DC Power	1966 Watts	2949 Watts
Minimum Charge Current	0.38 Amps	0.58 Amps
Maximum Charge Current	19.2 Amps	28.8 Amps
Charge/discharge cycles	10 000 @ 80% DoD, 25°C	
Operating temperature	charge 0° to 55°C discharge -20° to 60°C	
Operating humidity (non condensing)	85%	
IP Rating	IP50	
Battery case dimensions (mm)	450D x 420W x 88H	570D x 420W x 88H
Battery tray dimensions (mm)	450D x 483W	570D x 483W
Tray slide range (mm)	480 to 760	590 to 880
Terminal connection	Anderson SB50 blue	
Weight module	23.7kg	35kg
Weight tray	4.2kg	
BMS over volt cut off	58V	
BMS under volt cut off	40V	
BMS short circuit cut off	200 ± 30A (20mS trip)	
BMS over temp cut off	65°C	
Charge time approx.	2 hour at 20A	3 hour at 20A
Self discharge	14% per annum	
Circuit breaker compliance	2 - pole 60A IEC 60947-2	
Lithium composition	Lithium Ferro Phosphate (LiFePO ₄ or LFP)	
Casing	satin white industrial coated steel	
Certifications	AS/NZS60950 see genz.com.au for other certifications	
Part number	GC48V-040LFP-2RU	GC48V-060LFP-2RU



Operating conditions for extended warranty

Low cut off voltage	48.8V
Float voltage	56.0V
Operating temperature range	0°C to 40°C
Charge / discharge rate	0.5C using approved LFP charger

Specifications - 24V - 3kWh - 2RU

Nominal voltage DC	25.6V (24V)
Nominal capacity	115.2Ah/3kWh
Maximum current	60Amps (limited by circuit breaker)
Charge/discharge cycles	10 000 @80% DoD, 25°C
Operating temperature	charge 0° to 55°C discharge -20° to 60°C
Operating humidity (non condensing)	85%
IP Rating	IP50
Battery case dimensions (mm)	5700 x 420W x 88H
Battery tray dimensions (mm)	5700 x 483W
Tray slide range (mm)	590 to 880
Terminal connection	Anderson SB50 red
Weight module	35kg
Weight tray	4.2kg
BMS over volt cut off	29.2V
BMS under volt cut off	20V
BMS short circuit cut off	200 ± 30A (20mS trip)
BMS over temp cut off	65°C
Charge time approx.	3 hours at 40A
Self discharge	14% per annum
Circuit breaker compliance	double pole, non-polarised, 60A IEC 60947-2
Lithium composition	as Lithium Ferro Phosphate, (LiFePO ₄ or LFP)
Casing	satin white industrial coated steel
Certifications	ROHS, C Tick, CE see genz.com.au for details
Part number	GC24V-115LFP-2RU-2



Operating conditions for extended warranty

Low cut off voltage	24.4V
Float voltage	28V
Operating temperature range	0°C to 40°C
Charge / discharge rate	0.5C using approved LFP charger

Product design and specification subject to change or modification without notice - images for illustration only. E60E.
Warranty - See www.genz.com.au for details

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