

HIGH VOLTAGE ESS SOLUTIONS

30kwh – 1mwh



MODULAR



HIGH VOLTAGE
MATCHING



COMMUNICATION



INTELLIGENT



Model Name	GRE192	GRE240	GRE384	GRE512
Nominal Voltage (V)	192	240	384	512
Capacity (Ah)	100	100	100	100
Capacity (kWh)	19.2	24	38.4	51.2
No. of cell per module	15	15	15	16
No. of module in series	4	5	8	10
Total No. of cell	60	75	120	160
Cell Type	Prismatic, 100Ah	Prismatic, 100Ah	Prismatic, 100Ah	Prismatic, 100Ah
Chemistry	LFP	LFP	LFP	LFP
BMS Type	Smart	Smart	Smart	Smart
Maximum cut-off voltage (V)	219	273	438	584
Minimum cut-off voltage (V)	168	210	336	448
Charging Voltage (V)	219	273	438	584
Recommended charging current (A)	50	50	50	50
Maximum charging current (A)	50	50	50	50
Maximum Continuous discharging current (A)	100	100	100	100
Cycle Life (80% DOD, 25°C, 0.5C/0.5C)	6000	6000	6000	6000
Cell Over Voltage Protection	3.65	3.65	3.65	3.65
Cell Over Voltage Release	3.5	3.5	3.5	3.5
Cell Over Voltage Protection	2.7	2.7	2.7	2.7
Cell Under Voltage Release	2.8	2.8	2.8	2.8
Cell under voltage protection	Yes	Yes	Yes	Yes
Cell over voltage Protection	Yes	Yes	Yes	Yes
Over current protection	Yes	Yes	Yes	Yes
Short circuit protection	Yes	Yes	Yes	Yes
Temperature protection	Yes	Yes	Yes	Yes
Ingress protection	IP20	IP20	IP20	IP20
Dimension (LXWXH)mm	(550X550X1000)	(550X550X1200)	(550X550X1800)	(550X550X2200)
Power Connector	2 Pole Connector	2 Pole Connector	2 Pole Connector	2 Pole Connector
Weight (kg)	200kg (Approx.)	200kg (Approx.)	200kg (Approx.)	200kg (Approx.)
Communication Connector	CAN/RS485/Bluetooth	CAN/RS485/Bluetooth	CAN/RS485/Bluetooth	CAN/RS485/Bluetooth
MCB	YES	YES	YES	YES
Maintenance Port	YES	YES	YES	YES
Active Balancer	YES	YES	YES	YES