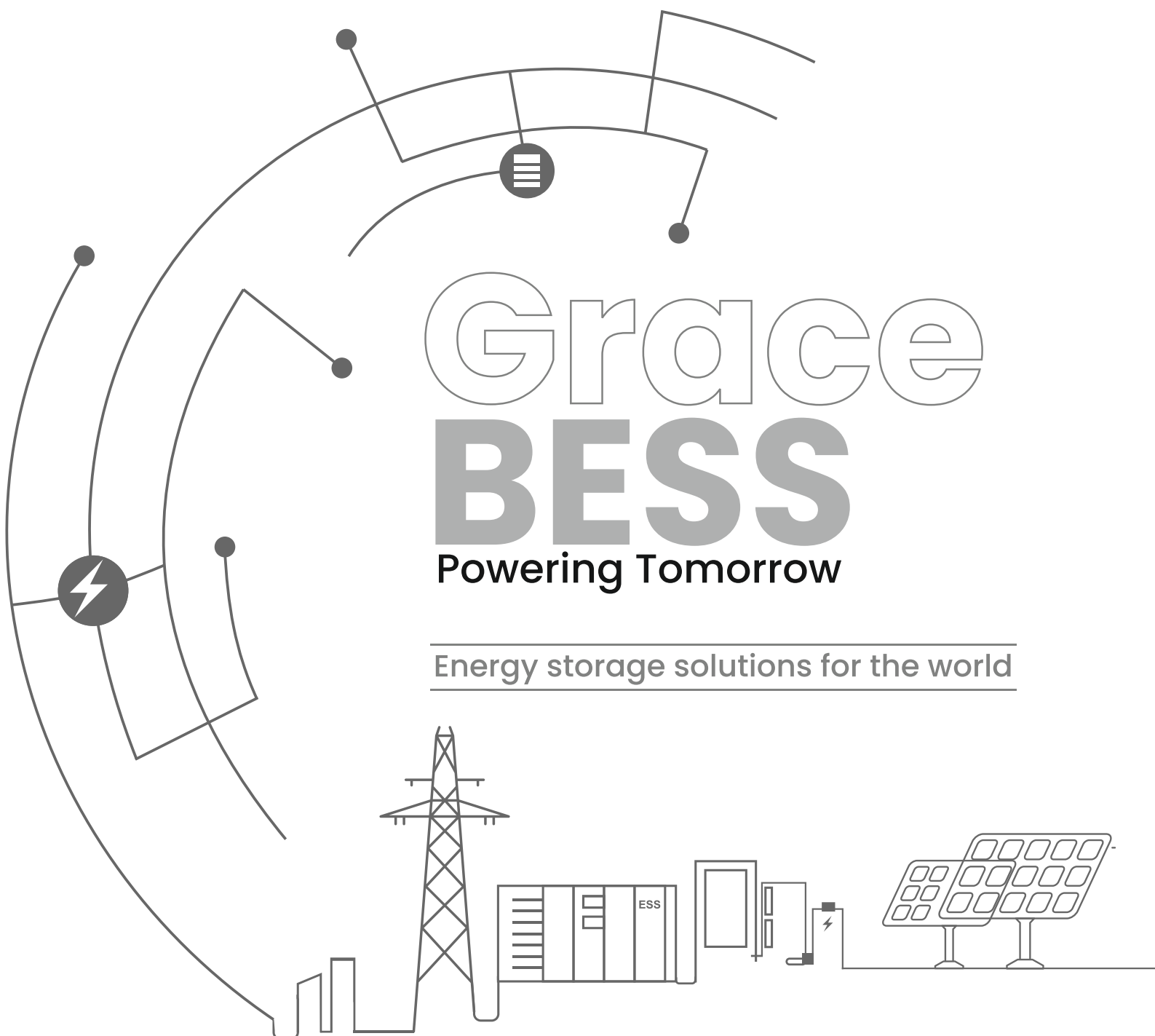




Grace BESS

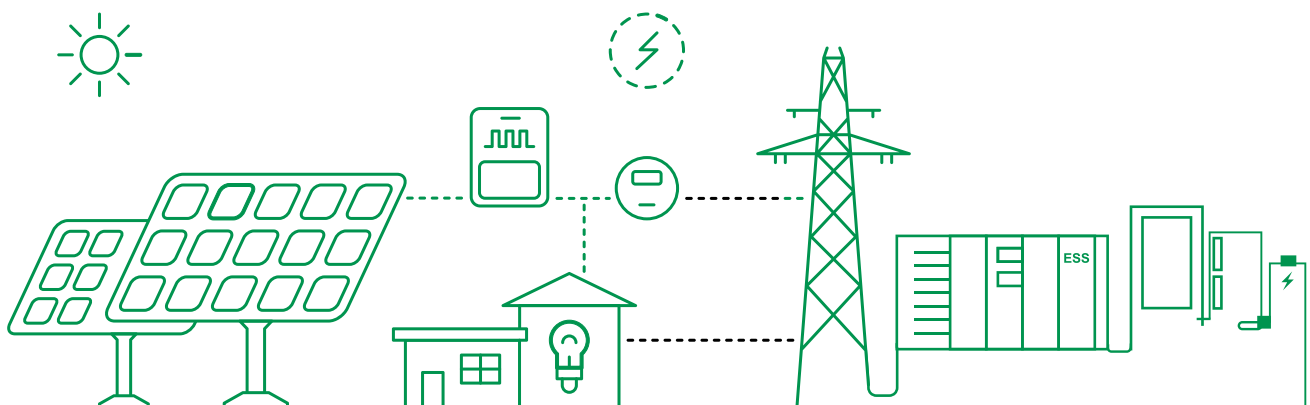
Powering Tomorrow

Energy storage solutions for the world



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POWERING
tomorrow

About Us

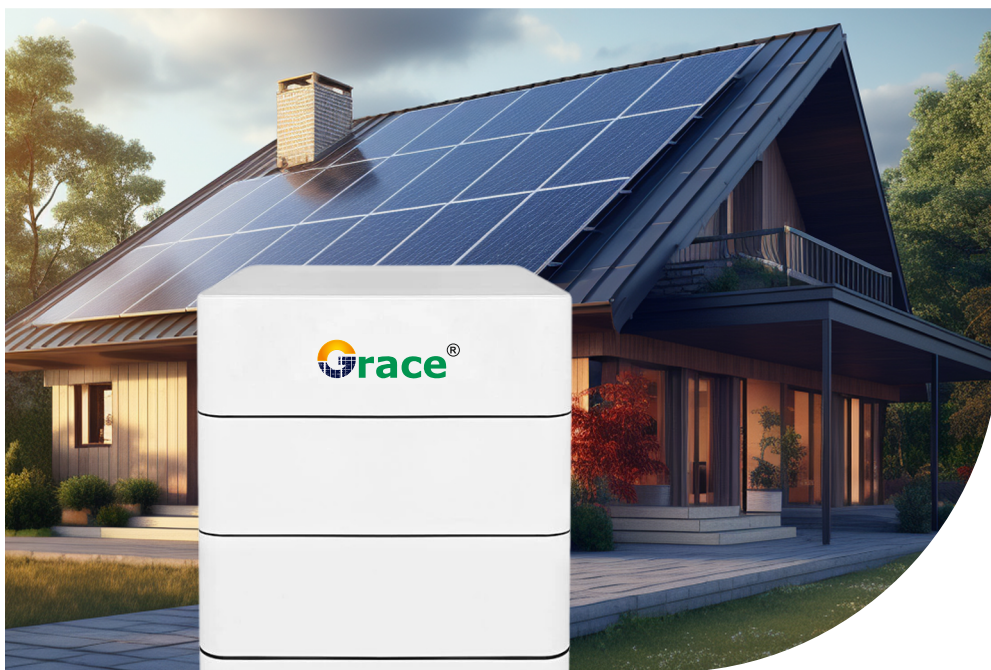
For over a decade, we have been at the forefront of clean energy, delivering reliable solar solutions to homes and businesses. Building on this solid foundation, we have expanded our expertise to include advanced energy storage systems, bringing even greater independence, efficiency, and resilience to our customers' energy needs.

Our energy storage systems are designed to optimize solar power usage by storing excess energy for use anytime—day or night, rain or shine. This not only ensures reliable backup power but also maximizes the benefits of solar energy by reducing reliance on the grid. With our cutting-edge storage solutions, customers gain control over their energy, lower their carbon footprint, and enjoy uninterrupted power when it matters most.

RESIDENTIAL ESS SOLUTIONS

ALL-IN-ONE SOLUTION

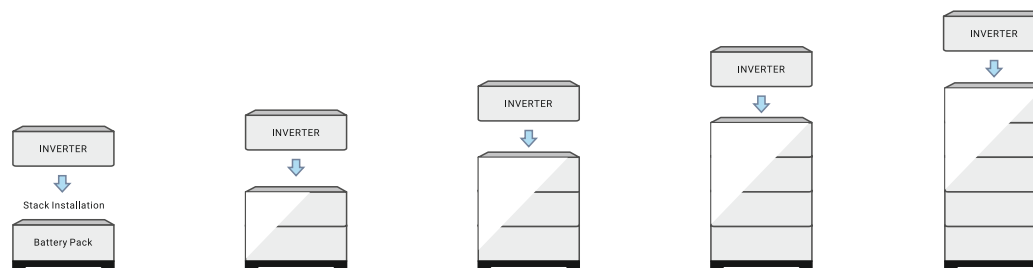
1 – 30 kwh



02

Model	GRE48100		GRE48200	
Specification	48V100Ah	51. 2V100Ah	48V200Ah	51. 2V200Ah
Combination	15S1P	16S1P	15S1P	16S1P
Capacity	4.8KWh	5.12KWh	9.6KWh	10.24KWh
Standard discharge current	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A
Working voltage range	40.5-54VDC	43.2-57.6VDC	40. 5-54VDC	43.2-57.6VDC
Standard Voltage	48VDC	51.2VDC	48VDC	51.2VDC
Max. charging current	50A	50A	100A	100A
Max. charging voltage	54V	57.6V	54V	57.6V
Cycle	3000~6000cycles @DOD 80%/25°C/0.5C			
Working humidity	65±20%RH			
Operating temperature	-10~+50°C			
Working altitude	≤2500m			
Cooling method	Natural cooling			
Installation	Stack installation			
Protection level	IP20			
Max of parallel	15PCS			
Warranty	5~10 Years			
Communication	Default: RS485/RS232/CAN Optional: WiFi/4G/Bluetooth			
Certified	CE ROHS FCC UN38.3 MSDS			
Product Size	400*200*460mm		400*240*460mm	
Package Size	460*230*545mm		460*270*545mm	
Net weight	50kg	53kg	102kg	106kg
Gross weight	55kg	58kg	112kg	116kg

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs



+91 90994 62222

www.gracerenew.com

info@gracerenew.com

RESIDENTIAL ESS SOLUTIONS

1 – 30 kwh

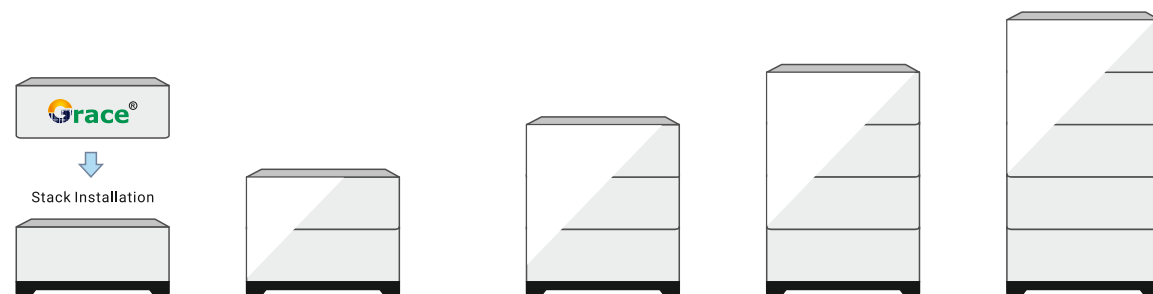


03



Model	GRE96	GRE144	GRE192	GRE240	GRE384	GRE512	GRE768
Specification	96V100AH	144V100AH	192V100AH	240V100AH	384V100AH	512V100AH	768V100AH
Capacity	9.6KWh	14.4KWh	19.2KWh	24KWh	38.4KWh	51.2KWh	76.8KWh
Standard discharge current	50A~300A(Customer customize)						
Max discharge current	50A~500A(Customer customize)						
Working voltage range	81-108VDC	121.5-162VDC	162-216VDC	202.5-270VDC	324-432VDC	432-576VDC	648-864VDC
Standard voltage	96V	144V	192V	240V	384V	512V	768V
Max charging current	100A~500A(Customer customize)						
Max charging voltage	81~864V						
Cycle	3000~6000 Cycles @DOD 80%/25°C/0.5C						
Working humidity	65±20%RH						
Operating temperature	-10~+50°C						
Working altitude	≤2500m						
Cooling method	Natural cooling						
Installation	Cabinet/Rack Mount/Stack installation						
Protection level	IP20						
Max of parallel	15PCS						
Warranty	5~10Years						
Communication	Default: RS485/RS232/CAN Optional: WiFi/4G/Bluetooth						
Certified	CE ROHS FCC UN38.3 MSDS						

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs



COMMERICAL & INDUSTRIAL ESS

30kwh – 1mwh



Product Model	GRE-EL372P2-DC	GRE-EL418P2-DC
Battery Side		
Cell Capacity	280Ah	314Ah
Cell Configuration	1P260S	
Nominal Voltage	1,331.2V	
Operating Voltage Range	1,164.8 - 1,497.6V	
Nominal Capacity	372.736kWh	417.997kWh
Supported Charge & Discharge Rate	≤ 0.5C	
Protection		
Overvoltage Protection	Yes	
Overcurrent Protection	Yes	
Short-circuit Protection	Yes	
Over-temperature Protection	Yes	
General Data		
Max. Efficiency	≥ 94% (Excluding self consumption)	
Operating Temperature Range	-20 to 50°C	
Dimensions (W*H*D)	1420*2300*1350mm	
Weight	3,200kg	3,500kg
Protection Degree	IP55	
Cooling Method	Liquid Cooling	
Fire Protection Method	Perfluoro+Pack-level+Active Forewarning	
Max. Operating Altitude	≤ 2,000m	
Networking Mode	LAN	

COMMERICAL & INDUSTRIAL ESS

30kwh – 1mwh



Product Model	HYX-EL232P2-G1	HYX-EL261P2-G1
AC Side		
Nominal AC Active Power	105kW	125kW
Nominal AC Voltage	380 / 400V (-15% ~ 15%)	
Nominal AC Grid Frequency	50 / 60Hz (-2.5 ~ 2.5)	
AC Connection Method	3P+N+PE	
Max. Output Current	158A	212A
Adjustable Power Factor Range	0.99 / -1~1	
Max. Total Harmonic Distortion (THDi)	≤3%	
Efficiency Response Time	< 20ms	
Battery Side		
Cell Capacity	280Ah	314Ah
Cell Configuration	1P260S	
Nominal Voltage	832V	
Operating Voltage Range	728 ~ 936V	
Nominal Capacity	232.96kWh	261.248kWh
Supported Charge & Discharge Rate	≤ 0.5C	
Protection		
Overvoltage Protection	Yes	
Overcurrent Protection	Yes	
Short-circuit Protection	Yes	
Over-temperature Protection	Yes	
General Data		
Max. Efficiency	≥ 90% (Excluding self consumption)	
Operating Temperature Range	-20 to 50°C	
Operating Humidity Range	0 - 95%RH	
Dimensions (W*H*D)	1000*2400*1350mm	
Weight	2,500kg	
Protection Degree	IP55	
Cooling Method	Liquid Cooling	
Fire Protection Method	Perfluoro+Pack-level+Active Forewarning	
Max. Operating Altitude	≤ 2,000m	
Networking Mode	WiFi / LAN / 4G	
Display	Touch Screen	

05

UTILITY SCALE ESS

1mwh – 5mwh



Product Model	GRE-EL3000P2-DC		GRE-EL4000P2-DC	GRE-EL5000P2-DC
Battery Side				
Cell Capacity	280Ah	280Ah		314Ah
Cell Configuration	10P416S	12P416S		12P416S
Nominal Voltage	1,331.2V			
Operating Voltage Range	1,164.8 ~ 1,497.6V			
Nominal Capacity	3727.36kWh	4472.832kWh		5015.96kWh
Supported Charge & Discharge Rate	≤ 0.5C			
Protection				
Overvoltage Protection	Yes			
Overcurrent Protection	Yes			
Short-circuit Protection	Yes			
Over-temperature Protection	Yes			
General Data				
Max. Efficiency	≥ 94% (Excluding self consumption)			
Operating Temperature Range	-20 to 50°C			
Operating Humidity Range	0 ~ 95%RH			
Noise	≤ 75dB			
Dimensions (W*H*D)	2850*2896*6058mm	2850*2896*6800mm		2850*2896*6800mm
Weight	32T	42T		52T
Protection Degree	IP55			
Cooling Method	Liquid Cooling			
Fire Protection Method	Perfluoro+Pack-level+Active Forewarning			
Max. Operating Altitude	≤ 2,000m			
Networking Mode	LAN			



06

TELECOM ESS SOLUTIONS

1mwh – 5mwh



Model	GRE4850		GRE48100		GRE48200	
Specification	48V50Ah	51. 2V50Ah	48V100Ah	51. 2V100Ah	48V200Ah	51. 2V200Ah
Combination	15S1P	16S1P	15S1P	16S1P	15S1P	16S1P
Capacity	2.4KWh	2.56KWh	4.8KWh	5.12KWh	9.6KWh	10.24KWh
Standard discharge current	50A	50A	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A	100A	100A
Working voltage range	40.5-54VDC	43.2-57.6VDC	40. 5-54VDC	43.2-57.6VDC	40. 5-54VDC	43.2-57.6VDC
Standard Voltage	48VDC	51.2VDC	48VDC	51.2VDC	48VDC	51.2VDC
Max. charging current	50A	50A	50A	50A	100A	100A
Max. charging voltage	54V	57.6V	54V	57.6V	54V	57.6V
Cycle	3000~6000cycles @DOD 80%/25°C/0.5C					
Working humidity	65±20%RH					
Operating temperature	-10~+50°C					
Working altitude	≤2500m					
Cooling method	Natural cooling					
Installation	Cabinet/Rack Mount					
Protection level	IP20					
Max of parallel	15PCS					
Warranty	5~10 Years					
Communication	Default: RS485/RS232/CAN Optional: WiFi/4G/Bluetooth					
Certified	CE ROHS FCC UN38.3 MSDS					
Product Size	440*495*88mm		440*495*178mm		440*590*178mm	
Package Size	555*500*130mm		555*500*235mm		480*650*220mm	
Net weight	25kg	37kg	41kg	45kg	101kg	105kg
Gross weight	30kg	42kg	49kg	55kg	111kg	115kg

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs

MOBILITY ESS SOLUTIONS

1mwh – 5mwh



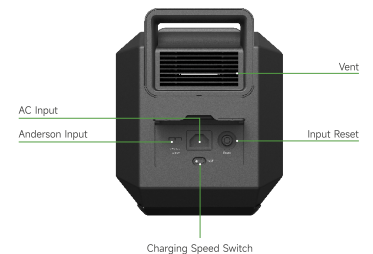
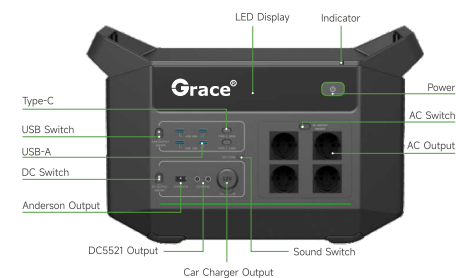
Model	CLN051100EV
Nominal Voltage (V)	51.2
Capacity (Ah)	100
No. of Cell in Series	16
No. of Cell in Parallel	1
Total No. of Cell	16
Cell Type	Prismatic
Chemistry	LFP
Electrical	
Maximum cut-off voltage (V)	57.6 (-1.6)
Minimum cut-off voltage (V)	44.8 (+1.6)
Charging Voltage (V)	56.0
Charging Mode	CC-CV
Maximum charging current (A)	40.0
Maximum Continuous discharging current (A)	100.0
Cell over voltage Protection	3.6
Cell over voltage release	3.5
Cell under voltage Protection	2.8
Cell under voltage release	2.9
Cycle Life @0.3C/1C @25°C	2000
DOD Level (%)	90%

Protection	
Cell under voltage protection	Yes
Cell over voltage Protection	Yes
Over current protection	Yes
Short circuit protection	Yes
Temperature protection	Yes
Temperature	
Working Temperature (°C)	0 – 55°C
Storage Temperature (°C)	0 - 45°C
Communications	
Bluetooth For Mobile Application Showing Real Time Data.	
RS485/ CAN Protocol Communication For Telematics.	
Other	
Dimension (mm) LxWxH	(415x285x263)
Weight (Kg)	45 (Approx.)

PORTABLE ESS SOLUTIONS



Product Model	GRE-EA700	GRE-EA1000	GRE-EA2000	GRE-EA2500
Cell Type	Lithium Iron Phosphate			
AC Input	500W Max.	800W Max.	1400W Max.	1400W Max.
Anderson Input (Panel Charger)	18 ~ 20V, ≤22A, 400W Max.		18 ~ 20V, ≤22A, 800W Max.	
Anderson Input (Car Charger)	13.2V / 8A			
AC Output Type	Pure Sine Wave			
Nominal Energy	665Wh	998Wh	1,872Wh	2,496Wh
Output Power	700W (1,100W Peak)	1,000W (1,800W Peak)	2,000W (3,300W Peak)	2,500W (4,500W Peak)
Fully Charge Time	1h 45min	1h 45min	2h	2h 30min
Car Outlet	13V/10A Max.			
DC Output	13V/3A Max.			
Anderson Output	13V/10A	13V/10A	13V/15A	13V/15A
USB 3.0	18W Max. 5V/3A 9V/2A 12V/1.5A			
Type-C	100W Max. 5V/9V/12V/15V 3A, 20V/5A			
Dimensions (W*H*D mm)	380*264*214mm		518*323*293mm	
Weight	10kg	12kg	22.5kg	25.5kg
Discharge Temperature Range	-10 to +45°C			
Cycle Life	4,000 cycles to 70% EOL			



09



Website

Grace Renewable Energy Ltd.

103/104, 10th Floor, The Chambers,
Sarkhej - Gandhinagar Hwy, nr. TGB,
Bodakdev, Ahmedabad, Gujarat 380054

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