Specifications	BCL9600
Battery Enclosure	BCL9600
Number of Battery Units	Up to 4 x 19" Rack Mountable Battery Packs
Storage Capacity	Up to 9.6kWh (4 x 2.4kWh Pylon Tech Batteries)
Battery Voltage	48V DC Nominal / 60V DC Maximum
Battery Chemistry	Lithium-ion with BMS
Access Type	Removable front Panels
Cable Specification	
Battery Cable Rating	4 x 65A
Battery Cable Type	8 AWG (8.36mm²)
Battery Cable Termination (Battery Enclosure)	Surlok Amphenol Connector
Battery Cable Termination (Inverter)	Amphenol H4 (65A)
BMS Cable Type	Depends on Battery Type
BMS Cable Termination	Refer to Battery Enclosure Installation Manual
Ventilation Specification	,
Ventilation Type	Passive and Active Cooling
Ventilation Control	Smart Temperature Control
Number of Fans	2
Fan Power	48V DC / 0.13A Per Fan
Fan Activation Temperature	Variable Depending on Charge/Discharge
Incoming Ventilation Aperture	288cm² with Washable Filter
Outgoing Ventilation Aperture	288cm² with Washable Filter
Passive Airflow Rate	30cm ³ /min
Active Airflow Rate	320cm³/min
General Data	·
External Dimension (W x H x D)	W 516mm x H 1205mm x D 280mm (with Feet)
Mounting and Weight - Empty	32kg Rear Fixing
Mounting and Weight - with Batteries	130kg Typical
Ambient Temperature Range	Based on Battery Specification
Environmental Protection Rating	IP54 - Protected From Rain, Splashing and Spraying
Noise Emissions	Less than 25dB
Warranty	5 Years
Construction	Powder Coated Steel Chassis
Finish	Sealed, Powder Coated front Covers and Chassis
Supply	Ships Pre-assembled
Maintenance	Externally Serviceable Dust Filters

Technical Data		GW5048-ESA		
Battery Input Data		Nominal Ouput Frequency (Hz)	50/60 (±0.2%)	
Battery Type	Li-lon	Output THDv (@Linear Load)	<3%	
Nominal Battery Voltage (V)	48	Back-up loads AC disconnect	Integrated 2 pole 25A MCB	
Battery Voltage Range(V)	40~60	Manual back-up load AC bypass switch	Integrated	
Maximum charging power (W) 4600		Efficiency		
Maximum discharge power (W)	4600	Max. Efficiency	97.6%	
Maximum charging current(A)	85	European averaged efficiency	97.0%	
Maximum discharging current(A)	100	Max. Battery to Load Efficiency	94.0%	
Battery charging method Self-adaption to BMS		Protection		
Battery disconnect	Integrated 2 pole DC breaker 125A DC per pole	Anti-islanding Protection	Integrated	
PV String Input Data		PV String Input Reverse Polarity Protection	Integrated	
Max. DC Input Power (W)	6500	Insulation Resistor Detection	Integrated	
Max. DC Input Voltage (V)	580	Residual Current Monitoring Unit	Integrated	
MPPT Range (V)	125~550	Output Over Current Protection	Integrated	
Start-up Voltage (V)	150	Output Short Protection	Integrated	
Nominal DC Input Voltage (V)	360	Output Over Voltage Protection	Integrated	
Max. Input Current (A)	Input Current (A) 11/11		General Data	
Max. Short Current (A)	13.8/13.8	Operating Temperature Range (°C)	-25~60	
No. of MPP Trackers	2	Relative Humidity	0~95%	
No. of Strings per MPP Tracker	1	Operating Altitude (m)	3000	
Solar array switch	Integrated	Cooling	Nature Convection	
AC Output Data (On-grid)		Noise (dB)	<25	
Max. Apparent Power Output to Utility Grid (VA)*	4600/5100	User Interface	LED & APP	
Max. Apparent Power from Utility Grid (VA)	9200	Communication with BMS	CAN	
Nominal Output Voltage (V)	230	Communication with Meter	RS485	
Nominal Ouput Freqency (Hz)	50/60	Communicaiton with Portal	Wi-Fi	
Max. AC Current Output to Utility Grid (A)	22.8	Weight (kg)	Inverter 32kg, BoS 12kg, total 44kg	
Max. AC Current From Utility Grid (A)	40	Size (Width*Height*Depth mm)	516 x 832 x 290	
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	Mounting	Wall Bracket	
Output THDi (@Nominal Output)	<3%	Protection Degree	IP65	
Grid disconnect	Integrated 2 pole 40A MCB	Standby Self-Consumption (W)	<13	
AC Output Data (Back-up)		Topology	Battery High Frequency Isolation/Solar Transformerless	
Nominal Output Apparent Power (VA) 4600		Certifications & Standards		
Nominal Output Current (A)	20	Grid Regulation	CEI 0-21;VDE4105-AR-N	
Peak Output Apparent Power (VA)**	6900 (10 seconds maximum)	Safety Regulation	IEC/EN62109-1&2, IEC62040-1	
Nominal Output Voltage (V)	230 (±2%)	EMC	EN61000-6-4,EN 61000-4-16, EN 61000-4-18, EN 61000-4-29	

^{*:4600}VA for VDE-AR-N4105,5100VA for other country

^{**:} Can be reached only if PV and battery power is enough