



GREENESS™

GreenVolt Pro

ALL IN ONE ESS

S.G.S.C

Our proprietary technology with smart automatic control, offering unmatched safety and advanced functionality for your energy needs.

AESTHETICALLY PLEASING

Fashionable and elegant appearance, high discrimination, and good visual effect.

Model	BS5B		HS5B	3PH10K
Technical Specifications		Standard Parameter		
BATTERY				
Battery Type	LFP			
Battery Model	MINT 7240			
Battery Nominal Voltage	73.6V			
System Energy Capacity	14.35kWh/28.7kWh		20.09kWh/40.18kWh	
Energy (useable)	13.75kWh/27.5kWh		19.25kWh/38.5kWh	
Nominal Voltage	368V		515.2V	
Operating Voltage	287.5V - 414V		402.5V - 579.6V	
Max. Charging Current	39A		37A	
Max. Discharging Current	39A		37A	
Short Circuit Current	400A			
Cycle Life	8000 cycles Condition: Max. 0.5C charge/discharge at 25±2°C,DoD :80%			
PV INPUT				
Max. PV Access Power	-	10000W	20000W	
Max. PV Input Power	-	10000W	15000W	
Max. PV Input Voltage	-	580V	1000V	
Start-up Voltage	-	100V	180V	
MPPT Voltage Range	-	100~550V	150-850V	
Rated PV Input Voltage	-	580V	600V	
Max. Operating PV Input Current	-	15A+15A	20A+20A	
Max. Input Short-Circuit Current	-	18.75A+18.75A	30A+30A	
No. of MPPs/Strings per MPPT	-	1/1	2/1+1	
GRID PORT				
Rated Power	5kW		10kW	
Rated Voltage	230Vac		230/400V 240/415V 0.85Un-1.1Un	
SMART GEN	YES			
FREE LUNCH (TIME OF USE)	YES			
BACKUP PORT				
Surge Backup Power	10kVA		15kVA	
Rated Backup Power	5kVA		15kVA	
Rated Backup Voltage	230Vac		400Vac	
Transfer Time	<10ms			
SMART PV (Grid-Forming)	YES			
EFFICIENCY				
Max. Efficiency	-	97.3%	98.2%	
Max. Round Trip Efficiency	90%			
HMI&COMM				
Load Monitoring	Single/Three-phases Meter (RS485/Wireless)			
External Communication	WIFI / 4G			
User Interface	LED/ / iGE APP / iGE-Cloud			
General Data				
Operating Temperature Range (°C)	-20°C~60°C		-40 to +60°C, >45°C Derating	
Permissible Ambient Humidity	0~95%		0-100%	
Permissible Altitude	≤3000m (>3000m Derating)		2000m	
Noise (dB)	<30dB		≤55dB	
Ingress Protection(IP) Rating	IP 65		IP 65	
Inverter Topology	Transformerless		Transformerless	
Over Voltage Category	OVC II(IIC), OVC III(IAC)		OVC II(IIC), OVC III(IAC)	
Cabinet Size (H×D×W mm)	1456*280*720 (1P) 1456*280*1440 (2P)		1413*280*720 (12S) 2826*280*1440 (7S2P)	
Weight (kg)	150.5(1P), 268(2P)		330.5(12S), 391.5(7S2P)	
Type of Cooling	Natural		Intelligent Air Cooling	
Warranty	10 Years			
Grid Regulation	VDE-AR-N 4105:2018, G98, G99, C10/11:2021, NTS 631, RD647:2020 UNE 217002:2020, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2:2020, EN 50549-1		AS/NZS 4777.2	
Safety/EMC Standard	IEC/EN 62109-1&2, IEC/EN 62477-1:2012, IEC/EN 61000 - 6 - 1, IEC/EN 61000 - 6 - 2, IEC/EN 61000 - 6 - 3, IEC/EN 61000 - 6 - 4, IEC 62619, IEC 62040-1		IEC/EN 61000-1-6/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, IEC 62619, IEC 62040-1	