



C & I Energy Storage System

Basic Parameters

MODEL		ESS 100kWh/50kW
PV INPUT PARAMETER		
Max. PV Power(kW)		96
Max. PV Input Voltage(V)		1000
MPPT Voltage Range(V)		150 ~ 850
AC OUTPUT PARAMETER		
Nominal Output Power To Grid (kW)		50
Max. Output Current To Grid (A)		76
Nominal Grid Frequency (Hz)		50/60
Nominal Grid Voltage (V)		3L/N/PE; 220/380V;230/400V;240/415V
BATTERY PARAMETER		
Total Energy (Wh)		100100
Useable Energy (Wh)		94094
Nominal Voltage (Vd.c)		358.4
Voltage Range (Vd.c)		313.6 ~ 403.2
Rated Capacity (Ah)		280
Single Module Specifications		51.2V/280Ah
Max. Charge /Discharge Power (kW)		55
Max. Charge/ Discharge Current (A)		140
SYSTEM PARAMETER		
Dimension (W *H* D) (mm)		750*2200*1100
Weight (KG)		1120
Operation Temperature	Charge	0°C ~ 55°C (32°F ~ 131°F)
	Discharge	-20°C ~ 60°C (-4°F ~ 140°F)
Storage Temperature		15°C ~ 35°C (59°F ~ 95°F)
IP Rating		IP65
Cooling Type		Air Cooling
Operating Environment		Indoor/Outdoor
Altitude		≤4000 m
Warranty		Inverter(5 Years) Battery(10 Years)
Operation Life		15+ Years (25°C/77 °F)
Cycle Life		≥8000 @25°C, 80%DOD
Certification		CE/UN38.3/MSDS

The recommended and max. continuous operation current is for a battery cell temperature within 10~40°C to consider, out of such temp. range will cause a derating on operation current.