

C&I ESS Demand Checklist

GROWATT
Manager

GROWATT
Support Engineer

Start Date(yymmdd)

Project Profile

◆ Project Name

◆ Project Location

◆ Installer or Electrical Consulter

Electrical Standard

◆ System Voltage (Three phase L-L voltage)

480V
 415V
 400V
 380V
 220V
 208V
 Others: V

◆ System Frequency

50Hz
 60Hz

◆ Electrical Connection

3P3W+PE
 3P4W+PE
 Others:

◆ Certification Required (Check all that are needed)

For **EU** models

EN 62920
 IEC/EN 62477-1
 IEC/EN 62109-1
 IEC 62116
 IEC 61727
 G99
 EN 50549-1
 VDE 4105
 NRS 097-2-1

For **US** models

UL1741
 UL1741 SA/SB
 IEEE 1547
 UL1998
 E-5000
 FCC Part 15
 SA17-SA18
 CSIP
 CEC
 HECO Rule 14
 CSA 22.2 No.107.1

Others:

Site Facility

Please list only those to be included in the system, existing or planned.

◆ Transformer

Transformer on grid-connection side
 Capacity: kVA
 Available Output: kW

No transformer

◆ Load

Peak load: kW

Average load: kW

Load types

(leave blank for default 100% resistive)

Inductive %

Capacitive %

Resistive %

If any of the loads have a large inrush current ($\geq 2x$ average load), check here and provide a load curve document for our assessment.

Impact load present
 Impact load power or current
 kW A

◆ Power Source

- Solar kW or Planned & Undecided
 Generator kW or Planned & Undecided

◆ Inverter

- Hybrid Inverter (with PV input and battery connection)
 Storage Inverter (with battery connection)

Inverter power kW
 (leave blank for default covering peak load)
 RSD requirement (available in US model)
 TIGO APS

◆ Battery

The battery system has a charge and discharge rating of 0.5C, if you mean to guarantee the full output of inverter when using battery only, please consider to choose a large battery capacity.

Capacity kWh or I don't want battery
 Planned & Undecided

Battery charge and discharge frequency time(s) per day

System Function

◆ Operation Mode

- On-Grid Mode Off-Grid Mode On/Off-Grid Mode
 Export Limit Function Export Limit Function

On-Grid Mode means the system works only with grid power supply;
 Off-Grid Mode means the system will never be connected to the grid.
 For system that can both be connected to the grid and work without the grid, please choose On/Off-Grid Mode.

◆ Purpose

Self-Consumption
 The self-consumption purpose is for system with PV input thus default when choosing hybrid inverter.

Grid Service Time of Use Demand Charge Peak Shaving
 These purposes are applied for system with **on-grid mode** or **on/off-grid mode**, please check Operation Mode Demand section for consistency.
 If a demand charge application is required, please provide load curve document for our assessment.

Micro Grid Back-Up
 These purposes are applied for system with **off-grid mode** or **on/off-grid mode**, please check Operation Mode Demand section for consistency.

◆ Monitoring

Integrate into existing EMS (Modbus)
 EMS provider information

◆ Generator Integration

Please fill in generator power column if you want to include generator in this system.
 I want to charge battery and power the load with my generator at the same time
 I want to power critical load with my generator when battery is low (not charging battery)
 Other thoughts

External Condition

◆ Installation Environment

Indoors Outdoors Others

◆ Environment Temperature

Max °C Min °C

◆ Installation Space

Width m Length m Height m

List below any comments on the current set up you'd like to let us know about