

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