

Q 1.	Q 2.	Q 3.	Q 4.
BACKUP			
How to charge?	Feed in?	PV Type?	Suggested configuration
Always (PV + Grid)	Yes	AC-Coupled DC-Coupled	PV Inverter Support Assistant Hub-1 Assistant "Keep batteries charged"
	No	AC-Coupled DC-Coupled	Don't do this, use a MPPT Solar Charge Controller instead. A PV Inverter will want to feed back, and trying to prevent that only complicates the install. Hub-1 Assistant "Connected to mains, no feedback"
PV Only	Yes	AC-Coupled DC-Coupled	Hub-4 Assistant. Set the Minimum state of charge in the CCGX to 100% Hub-1 Assistant "Keep batteries charged". Charger tab op 0A to prevent charging from grid (sustain will overrule the max charge current)
	No	AC-Coupled DC-Coupled	Consider using an MPPT instead. And if not possible, use Hub-2 Assistant "Connect to AC In when available, keep batteries charged", and enable the prevent feedback setting. Hub-1 Assistant "Connected to mains, no feedback". Charger tab op 0A to prevent charging from grid
Genset	No	AC-Coupled DC-Coupled	All Multi settings to default and use the PV Inverter Assistant. Possible connect PV on AC OUT 2 and use an Assistant to disconnect it when the genset is running Option 1) All default Option 2) Hub-1 Assistant "Connected to mains, no feedback". Advantage over option 1 is that PV power will be used when available, instead powering all loads with genset
SELF-CONSUMPTION			
How to charge?	Feed in?	PV Type?	Suggested configuration
PV Only	Yes	AC-Coupled DC-Coupled	Hub-4 Assistant Hub-1 Assistant "Connected to mains, feedback"
	No	AC-Coupled DC-Coupled	Consider using an MPPT instead. And if not possible, use the Hub-2 Assistant "Day/night mode, prevent feedback" Option 1) Hub-4 Assistant <- recommended, dynamic cutoff, much simpler etc. Option 2) Hub-1 Assistant
SELF-CONSUMPTION WITH BATTERY RESERVE FOR GRID FAILURES			
How to charge?	Feed in?	PV Type?	Suggested configuration
PV	Yes	AC-Coupled DC-Coupled	Hub-4 Assistant. Configure the Minimum state of charge in the CCGX Not possible. Best is to use the no-feedin alternative, or use Hub-1, but it does not allow setting an SOC. Hub-1 works only on Battery Voltage.
	No	AC-Coupled DC-Coupled	Consider using an MPPT instead. And if not possible, use the Hub-2 Assistant. Enable Prevent feedback. Configure the minimal SOC in the Battery Empty Levels page of the Hub-2 assistant. Hub-4 Assistant. Configure the Minimum state of charge in the CCGX
OFF-GRID			
How to charge?	Feed in?		
When genset runs, max pwr	n.a.	AC-Coupled	PV Inverter Support Assistant
Otherwise PV		DC-Coupled	MPPT + Multi, no Assistants or other config needed
INTENTIONAL ISLANDING			
How to charge?	Feed in?		
	not applicable	AC-Coupled	PV Inverter Assistant + General Flag and Generator Start/Stop
	not applicable	DC-Coupled	Virtual switch - Dedicated ignore AC Input