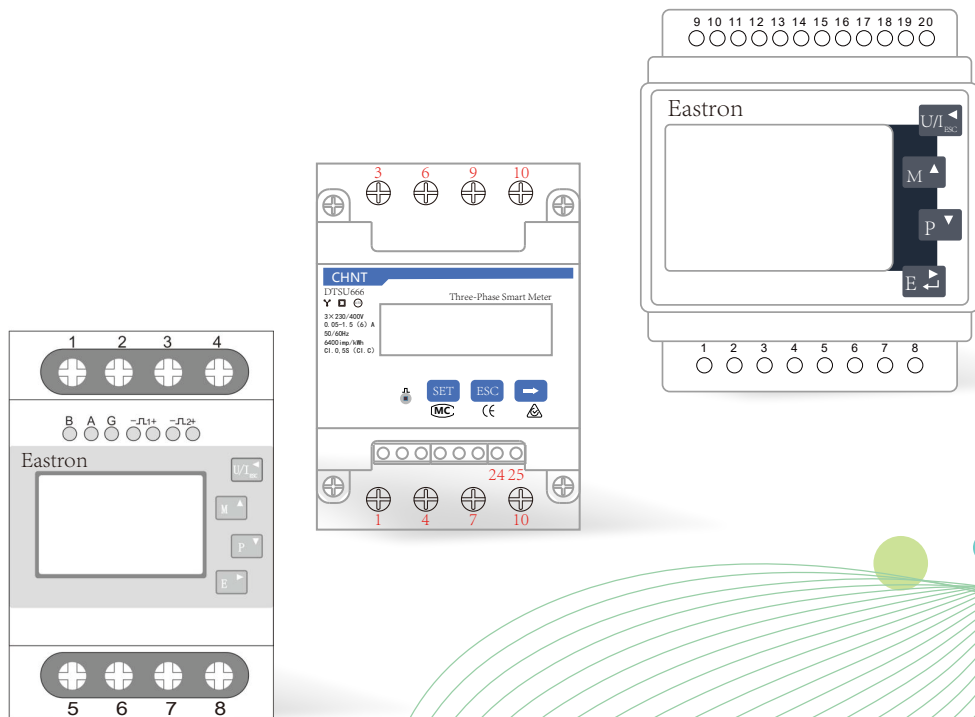


# Generator application of the Deye string inverter setup guide



If there're several inverters paralleling operation in a plant, also it can use 1pcs meter to realize zero export function. For example, if there're 3pcs inverters paralleling operation in the system with 1pcs meter. We need to setup 1pcs inverter as the master and others setup as slaves. And, all of them need to connect to the meter via RS485. Below is the system diagram and configuration of the system.

**Note:** Currently the Max number of on-grid inverters (3phase) connects 1pcs meter is 10. More info please contact Deye.

Exp\_Mode: AVG or Min .

1, **Min** : in this mode (minimum mode), the inverter will give output power according to the smallest load power of three phase. For example, L1 load power: 1kW, L2 load power: 2kW, L3 load power: 3kW, then the inverter output power is  $1kW * 3 = 3kW$ .

**AVG:** in this mode (average mode), the inverter will give output power according to the total load power of three phase.

For example, L1 load power: 1kW, L2 load power: 2kW, L3 load power: 3kW, then the inverter output power is  $(1kW + 2kW + 3kW) / 3 = 6kW$ .

2, **CT\_Ratio**: CT ratio of meter. When using meter with external CT, we need to setup this parameter correctly. Otherwise, the meter can't show the accurate data.

3, **MFR**: it is used to choose meter type or inverter recognize the meter type automatically. For the meter communication address need to setup as 001.

**MFR Auto**: inverter will recognize the meter type automatically.

**MFR CHNT**: if using the CHNT meter then choose CHNT.

**MFR EASTRON**: if using the EASTRON meter then choose EASTRON.

4, **Feedin (KW)**: in the zero-export mode for several inverters connected one meter, when the load power is satisfied, it allows the external Power feed into grid. For example, if the inverters power is 100W, the load power is 50W and Feedin is 20KW, the inverter will give output power of 70KW.

5, **Shunt**: used to setup the inverter as master or slave in the system which has more than 1 unit connect to one meter.

6, **ShuntQTY**: number of the inverters in the parallel system with meter.

7, **Generator**: ON/OFF.

8, **G.CT**: CT ratio of meter for the generator. When using meter with external CT, we need to setup this parameter correctly. Otherwise, the meter can't show the accurate data.

9, **G.MFR**: it is used to choose meter type or inverter recognize the meter type automatically when the generator is connected. For the meter communication address need to setup as 002.

10, **G. Pout %**: the Min. output power of the generator rated power in %.

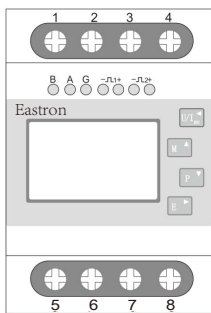
11, **G.cap**: generator capacity, set upper limit 999KW.

## MENU Setting

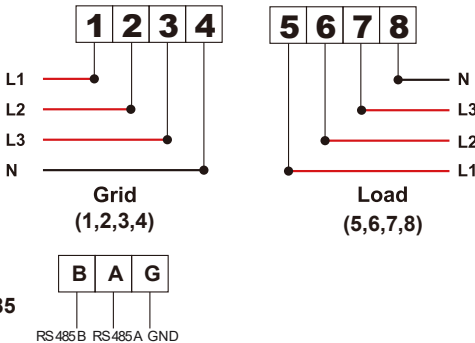
Exp_Mode	AVG	Generator	ON
CT_Ratio	1	G.CT	1
MFR	AUTO	G.MFR	AUTO
FeedIn	0.0KW	G. Pout %	0%
Shunt	OFF	G.Cap	200.0 KW
ShuntQTY	4		
	Back		

Meter function

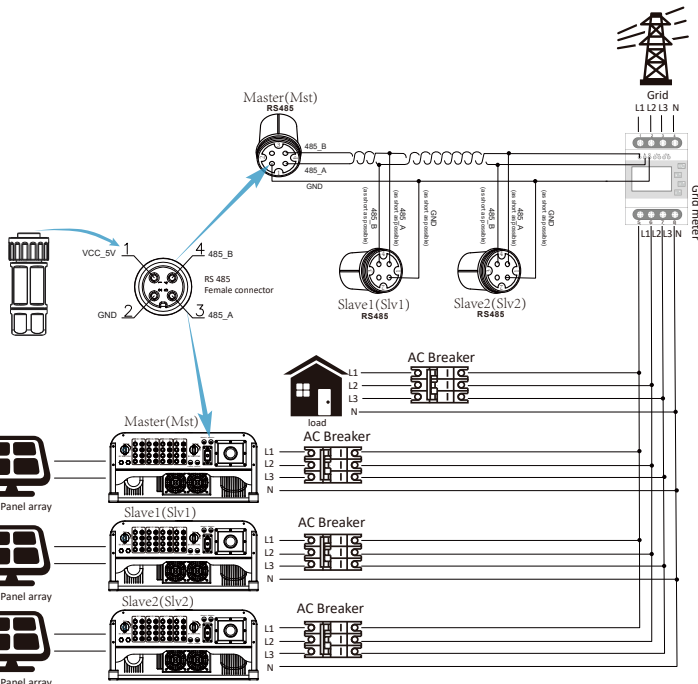
## Generator application diagram for 3pcs on-grid inverter and 1pcs Eastron meter



Eastron SDM630-Modbus V2



Eastron meter



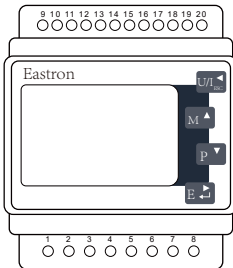
MENU Setting		
Exp_Mode	AVG	Generator OFF
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 0%
Shunt	MST	G.Cap 0 KW
ShuntQTY	3	
Back		

MENU Setting		
Exp_Mode	AVG	Generator OFF
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 0%
Shunt	SLV	G.Cap 0 KW
ShuntQTY	3	
Back		

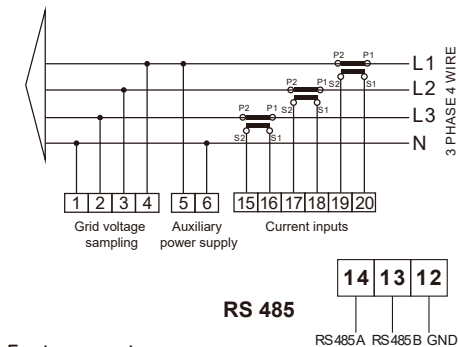
MENU Setting		
Exp_Mode	AVG	Generator OFF
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 0%
Shunt	SLV	G.Cap 0 KW
ShuntQTY	3	
Back		

\*The master-slave setting is only required when the number is greater than 1. Use the parallel function.

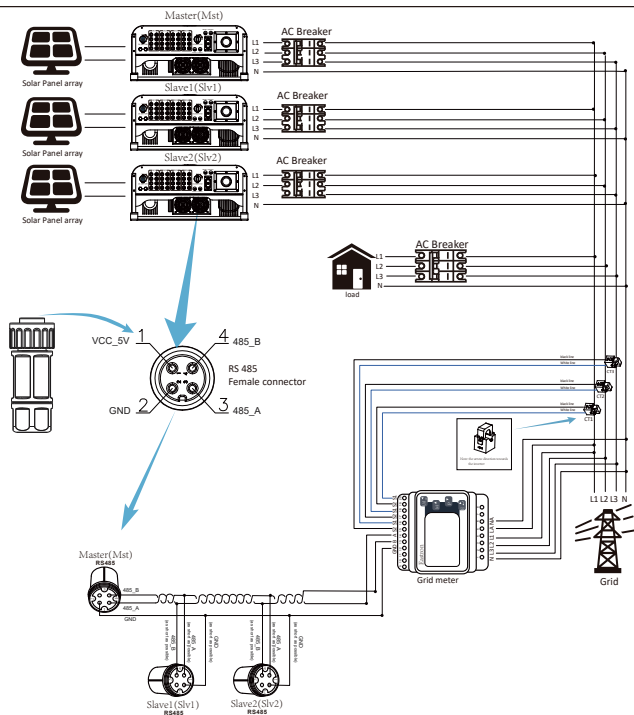
Setup page of each inverter



Eastron SDM630MCT



Eastron meter



Master Inverter

MENU Setting		
Exp_Mode	AVG	Generator OFF
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 0%
Shunt	MST	G.Cap 0 KW
ShuntQTY	3	
Back		

Slave1 Inverter

MENU Setting		
Exp_Mode	AVG	Generator OFF
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 0%
Shunt	SLV	G.Cap 0 KW
ShuntQTY	3	
Back		

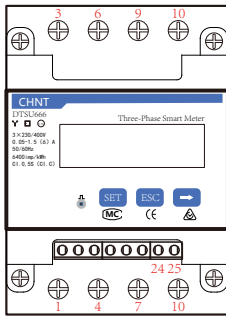
Slave2 Inverter

MENU Setting		
Exp_Mode	AVG	Generator OFF
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 0%
Shunt	SLV	G.Cap 0 KW
ShuntQTY	3	
Back		

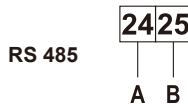
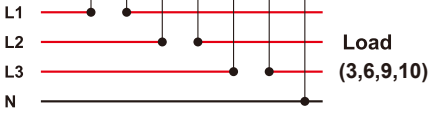
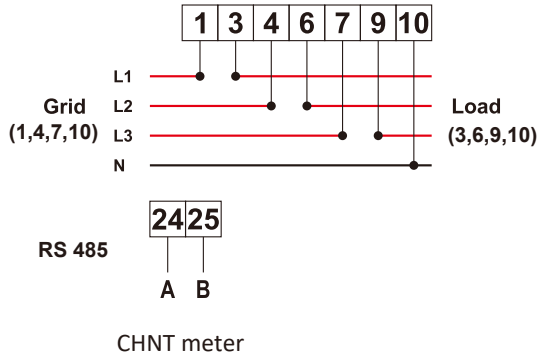
\*The master-slave setting is only required when the number is greater than 1. Use the parallel function.

### Setup page of each inverter

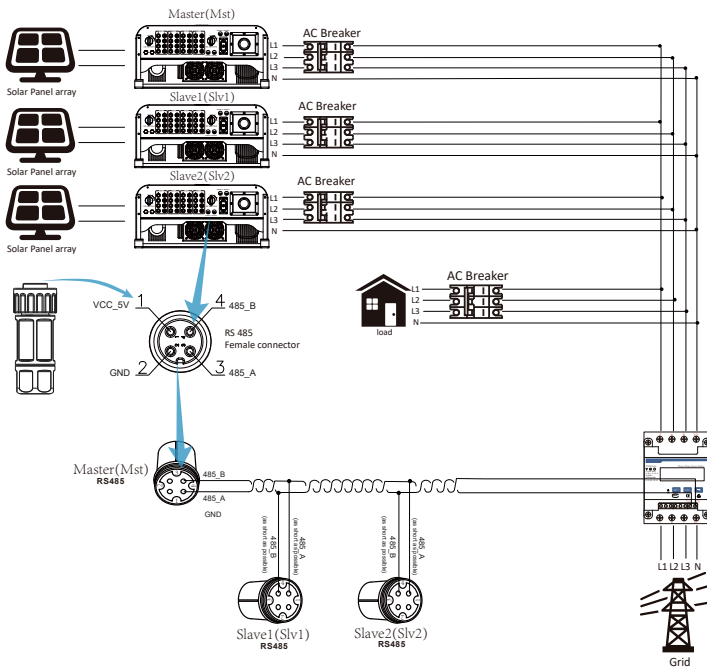
**Generator application diagram for 3pcs on-grid inverter and 1pcs CHNT meter**



CHNT DTSU666



CHNT meter



Master Inverter

MENU Setting		
Exp_Mode	AVG	Generator OFF
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 0%
Shunt	MST	G.Cap 0 KW
ShuntQTY	3	
Back		

Slave1 Inverter

MENU Setting		
Exp_Mode	AVG	Generator OFF
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 0%
Shunt	SLV	G.Cap 0 KW
ShuntQTY	3	
Back		

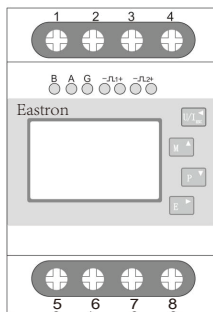
Slave2 Inverter

MENU Setting		
Exp_Mode	AVG	Generator OFF
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 0%
Shunt	SLV	G.Cap 0 KW
ShuntQTY	3	
Back		

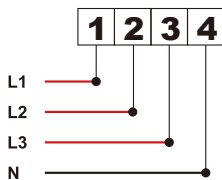
\*The master-slave setting is only required when the number is greater than 1. Use the parallel function.

Setup page of each inverter

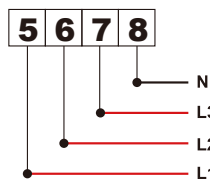
## Generator application diagram for 3pcs on-grid inverter and 1pcs Eastron meter



Eastron SDM630-Modbus V2



Grid (1,2,3,4)



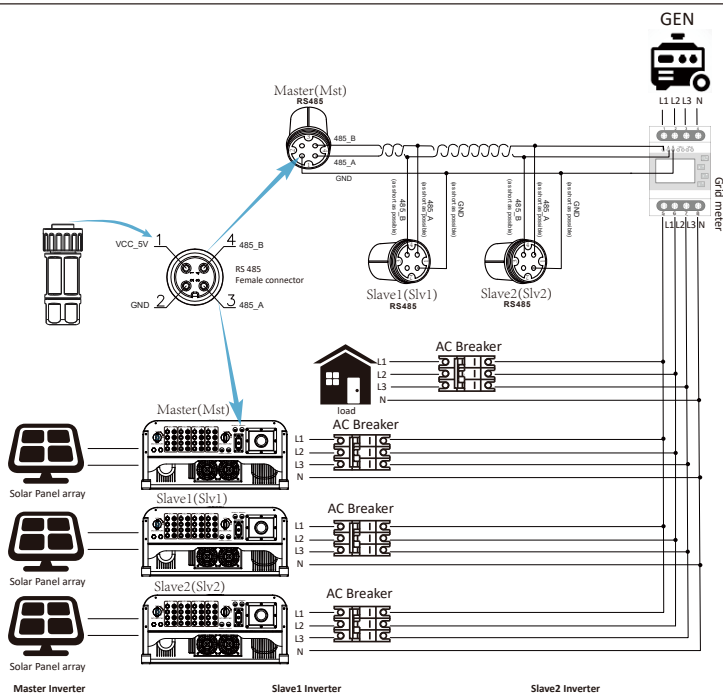
Load (5,6,7,8)

RS 485



RS 485 B RS 485 A GND

Eastron meter



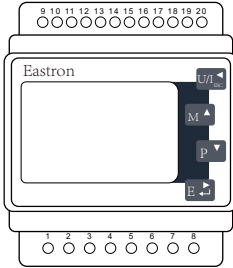
MENU Setting		
Exp_Mode	AVG	Generator ON
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 20%
Shunt	MST	G.Cap 25 KW
ShuntQTY	3	
Back		

MENU Setting		
Exp_Mode	AVG	Generator ON
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 20%
Shunt	SLV	G.Cap 25 KW
ShuntQTY	3	
Back		

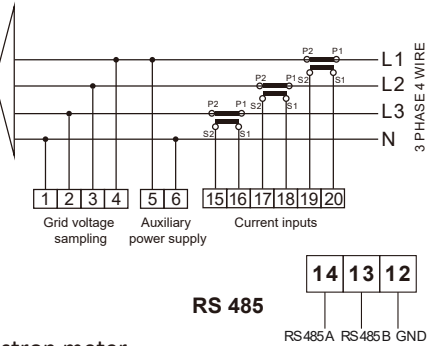
MENU Setting		
Exp_Mode	AVG	Generator ON
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 20%
Shunt	SLV	G.Cap 25 KW
ShuntQTY	3	
Back		

\*When you need to use the generator function, please set the option of the switch to ON. Set the G.Cap & Feeding according to the capacity of your own generator to control the output of your generator.

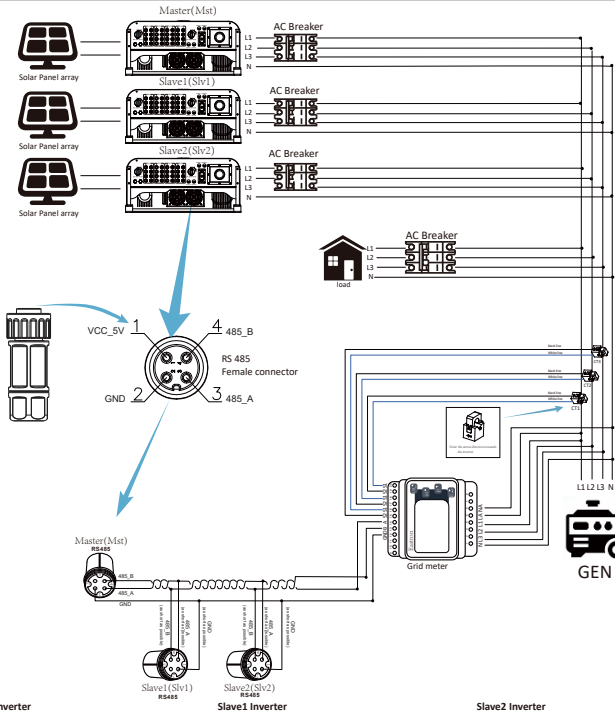
Setup page of each inverter



Eastron SDM630MCT



Eastron meter



**Master Inverter**

MENU Setting		
Exp_Mode	AVG	Generator ON
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
Feedin	0.0KW	G.Feedin 20%
Shunt	MST	G.Cap 25 KW
ShuntQTY	3	
Back		

**Slave1 Inverter**

MENU Setting		
Exp_Mode	AVG	Generator ON
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
Feedin	0.0KW	G.Feedin 20%
Shunt	SLV	G.Cap 25 KW
ShuntQTY	3	
Back		

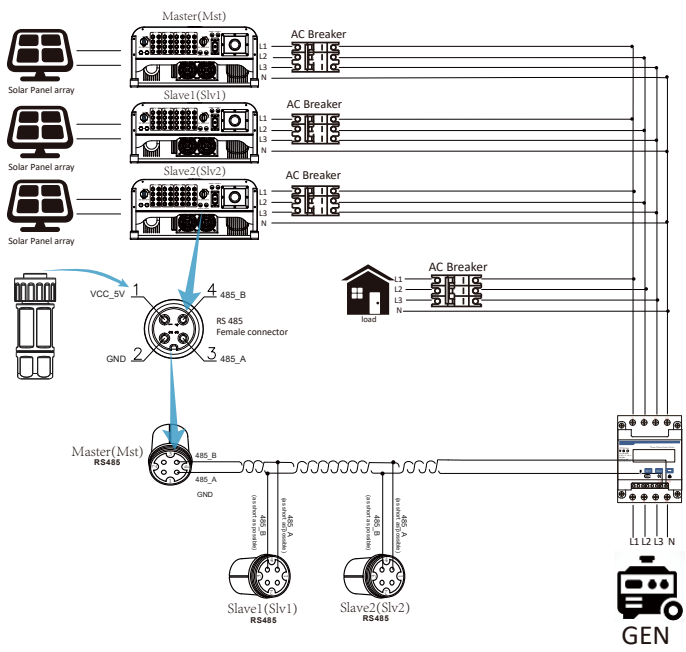
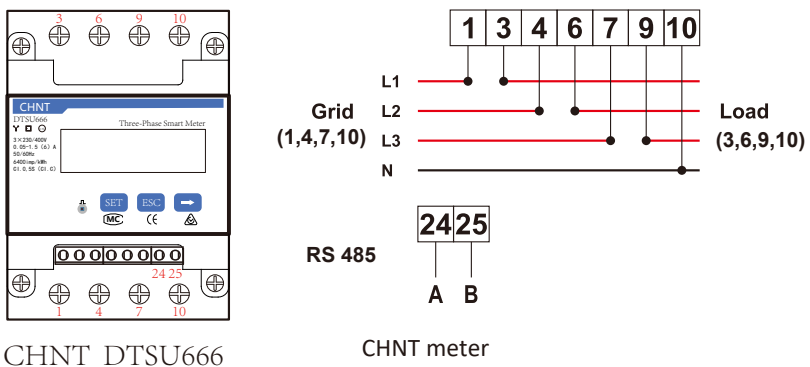
**Slave2 Inverter**

MENU Setting		
Exp_Mode	AVG	Generator ON
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
Feedin	0.0KW	G.Feedin 20%
Shunt	SLV	G.Cap 25 KW
ShuntQTY	3	
Back		

\*When you need to use the generator function, please set the option of the switch to ON. Set the G.Cap G.Feeding according to the capacity of your own generator to control the output of your generator.

Setup page of each inverter

## Generator application diagram for 3pcs on-grid inverter and 1pcs CHNT meter



**Master Inverter**

MENU Setting		
Exp_Mode	AVG	Generator ON
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 20%
Shunt	MST	G.Cap 25 KW
ShuntQTY	3	
Back		

**Slave1 Inverter**

MENU Setting		
Exp_Mode	AVG	Generator ON
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 20%
Shunt	SLV	G.Cap 25 KW
ShuntQTY	3	
Back		

**Slave2 Inverter**

MENU Setting		
Exp_Mode	AVG	Generator ON
CT_Ratio	1	G.CT 1
MFR	AUTO	G.MFR AUTO
FeedIn	0.0KW	G.FeedIn 20%
Shunt	SLV	G.Cap 25 KW
ShuntQTY	3	
Back		

\*When you need to use the generator function, please set the option of the switch to DN. Set the G.Cap G.Feeding according to the capacity of your own generator to control the output of your generator.

Setup page of each inverter