



# **MPI HYBRID INVERTER SETUP SOP - PYLONTECH BATTERY**

(1) Inverter Spec.:

MPI HYBRID SERIES	ЗК	4K	5K	5.5K	10K		
Rated Power							
Continuous Output	3,000W	4,000W	5,000W	5,500W	10,000W		
Parallel-Ready	No	Yes	Yes	No	Yes		
PV Input Rating (GRID-TIE)							
Max PV Input Power	4,500W	5,000W	10,000W	6,500W	14,850W		
Max PV Input Voltage	500Vdc	580Vdc	900Vdc	500Vdc	900Vdc		
Start-up / Initial Feeding Voltage	116 / 150Vdc	116 / 150Vdc	220 / 250 Vdc	116 / 150Vdc	320 / 350 Vdc		
PV MPPT Range	250 - 450Vdc	120 - 500Vdc	250 - 850 Vdc	120 - 450Vdc	350 - 850 Vdc		
Max PV Input Current	18A	18A	10A x 2	13A x 2	18A x 2		
MPPT Tracker	1	1	2	2	2		
Max DC/AC Conversion Efficiency		>96%					
AC Input							
Start-up / Auto Restart		120 - 140Vac / 180Vac					
Input Voltage Range		170 - 280Vac					
Nominal Frequency		50 / 60 Hz					
Max AC Input Current	30A	40A	40A	40A	25A		
AC Output					la.		
Nominal AC Output Voltage		208/220/230/240	OVac, Single Phase		400Vac, 3-Phase		
Output Voltage Range		184 - 2	265Vac		184 - 265Vac (P-N) / 318 - 460Vac (P-		
Output Frequency (GRID-TIE)		47.5	- 51.5Hz / 59.3 -	60.5 Hz			
Output Frequency (OFF-GRID)		5	0 / 60Hz, auto-ser	ising			
Output Waveform			Pure Sine Wave				
Max Output Power (via grid relay)	5,100W	6,000W		6,500W	16,000W		
Max Output Power (via grid relay)	5,100W 3,000W	6,000W 4,000W			16,000W 10,000W		
Max Output Power (via grid relay) Max Output Power (battery mode)		4,000W	7,000W	6,500W			
Max Output Power (via grid relay) Max Output Power (battery mode)		4,000W	7,000W 5,000W	6,500W	10,000W		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency		4,000W	7,000W 5,000W	6,500W	10,000W		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency Battery Charger		4,000W	7,000W 5,000W 3%	6,500W	10,000W		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency Battery Charger Nominal DC Voltage	3,000W 25A	4,000W >9 80A	7,000W 5,000W 3% 48Vdc	6,500W 5,500W	10,000W >91%		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC	3,000W 25A	4,000W >9 80A	7,000W 5,000W 3% 48Vdc	6,500W 5,500W	10,000W >91%		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC	3,000W 25A	4,000W >9 80A IS	7,000W 5,000W 3% 48Vdc 100A	6,500W 5,500W 60A	10,000W >91%		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port	3,000W 25A	4,000W >9 80A IS EN62109-	7,000W 5,000W 3% 48Vdc 100A RS232 / USB	6,500W 5,500W 60A 52040-1 / CE	10,000W >91%		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port	3,000W 25A	4,000W >9 80A IS EN62109- V	7,000W 5,000W 3% 48Vdc 100A RS232 / USB 1, EN62109-2, EN	6,500W 5,500W 60A 52040-1 / CE -1-1	10,000W >91%		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port Certifications	3,000W 25A	4,000W >9 80A IS EN62109- V AS477	7,000W 5,000W 3% 48Vdc 100A RS232 / USB 1, EN62109-2, EN0 DE4105, VDE0126	6,500W 5,500W 60A 52040-1 / CE -1-1	10,000W >91%		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency Battery Charger Nominal DC Voltage Max Charging Current	3,000W 25A AL SPECIFICATION	4,000W >9 80A IS EN62109- V AS477	7,000W 5,000W 3% 48Vdc 100A RS232 / USB 1, EN62109-2, EN DE4105, VDE0126 7/3100 <b>(3K, 5.5K,</b>	6,500W 5,500W 60A 52040-1 / CE -1-1 <b>10K only)</b> 0 - 40°C	10,000W >91% 200A		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port Certifications Operating Temp. Operating Humidity	3,000W 25A AL SPECIFICATION	4,000W >9 80A IS EN62109- V AS477	7,000W 5,000W 3% 48Vdc 100A RS232 / USB 1, EN62109-2, EN DE4105, VDE0126 7/3100 <b>(3K, 5.5K,</b> -10 - 50°C	6,500W 5,500W 60A 52040-1 / CE -1-1 <b>10K only)</b> 0 - 40°C	10,000W >91% 200A -10 - 50°C		
Max Output Power (via grid relay) Max Output Power (battery mode) Max Efficiency Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port Certifications Operating Temp.	3,000W 25A AL SPECIFICATION 0 - 4	4,000W >9 80A IS EN62109- V AS477 0°C 0 -	7,000W 5,000W 3% 48Vdc 100A RS232 / USB 1, EN62109-2, EN DE4105, VDE0126 7/3100 <b>(3K, 5.5K,</b> -10 - 50°C 90% RH (No conde	6,500W 5,500W 60A 62040-1 / CE -1-1 <b>10K only)</b> 0 - 40°C ensing)	10,000W >91% 200A		



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Shanghai 201203, China



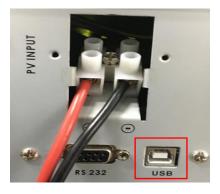
(=) ••••••		1				
Battery Type		US2000B/US2000BPlus/Phantom-S/US3000				
Inverter Type	MPI 3K	MPI 5K	MPI 5.5K	MPI 10K		
Recommend	According to load	According to load requirement and inverter rated power.				
battery Amount	Battery Amo	Battery Amount N = Load power/1200W				
Communication	Not required, but	Not required, but need finish the setting on Inverter software				
DOD	80%					
Working Temp.	0 - 50°C (Indoor o	operation)				
Charge/Dischar	N*25, N = Battery	/ amount				
ge Current						
Warranty	Refer to each cou	untry`s warranty te	rms, please co	ntact your distributor		

#### (2) General Compatible Condition:

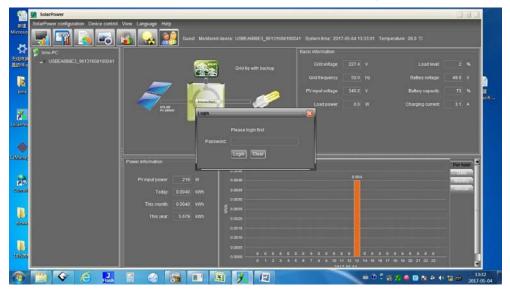
(3) Inverter set up:

(a) Connect PV or Grid power to wake up inverter; Connect the communication cable from Inverter to computer.





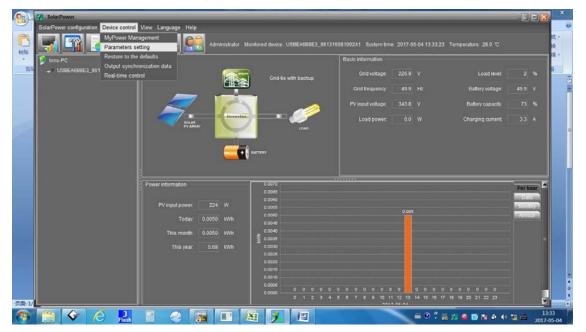
(b) Open 'Solarpower.exe'(the inverter set up software), Log in .







(c)Press 'Parameters Setting'.



(d) Set the parameter according to below recommendation, the max. charge current refer to the specific battery amount of real application. Then click 'Apply'. According to the inverter limitation, for 2kW&3kW inverter max. is 25A, for 5kW max. is 100A, for 10kW max. is 200A.

Parameters setting	-	_	_			×
Min. grid-co	onnected voltage:	189	Apply	The waiting time before grid-connection:	30 🚆 Sec.	Apply
Max. grid-co	onnected voltage:	263.5	Apply	Max. grid-connected average voltage: 2	53 📮 V	Apply
Min. grid-conr	nected frequency;	47.6	Hz Apply	Max feed-in grid power: 3,0	w 🗧 w	Apply
Max. grid-conr	rected frequency:	50,1	Hz Apply			
Min. P	V input voltage:	90 🗧 V	Apply	Bulk charging voltage(C.V. voltage):	53.2 🐺 V	Apply
Max. P	V input voltage:	500 🐺 V	Apply	Floating charging voltage:	53.2 🗧 V	Apply
Mi	n. MPP voltage:	120 V	Apply	Battery cut-off discharging voltage when Grid is available:	48 🗧 V	Apply
Ma	ix. MPP voltage:	450 🖉 V	Apply	Battery re-discharging voltage when Grid is available:	50 🗧 V	Apply
Max. ch	narging current:	25 A	Apply:	Battery cut-off discharging voltage when Grid is unavailable:	48 🗧 V	Apply
Start LCD scr	een-saver after:	300 💌 Se	c. Apply	Battery re-discharging voltage when Grid is unavailable:	50 🗧 V	Apply
T.	Mute Buzzer al	arm: 🔘 Ena	ible 🖲 Disa	ble Apply. Mute alarm in battery mode: O Enable	Disable	Apply
Mute the buzze	er in the Standby m	ode: 🔘 Ena	ible 🖲 Disa	ble Apply Generator as AC source: O Enable	Disable	Apply
When float chargin	g current is less th	an X (A) and co	intinued T (Mir	n),then charger off, when battery voltage is less than Y (V),then charger	on again.	
x	A 🖷	T: 60	Min.	Y: 51.5 V Apply		
۲	Any schedule cha	nge will affect t	he power gen	erated and shall be conservatively made.		
System time:	2017-05-04	<b>*</b>				
	13:34:46	Apply	1			



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# **PIP-MS/MG INVERTER SETUP SOP - PYLONTECH BATTERY**

PIP-MS/MG *PF1* SERIES	1012MS	2024MS	3024MS	4048MS(1)	5048MS	5048MG
ELECTRICAL SPECIFICATIONS						
Continuous Output	1000W	2000W	3000W	4000W	5000W	5000W
Parallel-ready		NO		YE	S, MAX 9 L	INITS
Batteryless Operation			NO			YES
Input Power Factor				1		
Input Voltage Range	90~2	80VAC (App	liance mod	e), 170~280V	AC (UPS m	ode)
Input/Output Frequency			50Hz	/ 60Hz		
Output Voltage			230V	AC±5%		
Output Waveform			Pure Si	ne Wave		
Output Regulation		< 3% I	RMS for bat	ttery voltage	range	
Output Short Circuit			Circuit	Breaker		
Peak Efficiency		95% (lin	e mode) / 9	91% (inverter	mode)	
Transfer Time	<	10ms (UPS	mode), <20	ms (Appliand	e mode) **	
Charging Mode	3-stage					
Nominal DC Voltage	12V	24	4V		48V	
Bulk Volt (Flooded, AGM)	14.6, 14.1V	29.2,	28.2V		58.4, 56.4	V
Float Volt	13.5V	27	.0V	54.	DV	54.0V
Max DC Volt	15.5V	31	.0V	66.	OV	66.0V
Max AC Charging Current	20Amp	30A	hmp	60A	mp	80A
No Load Consumption	<15W	<2	5W	<50	W	<50W
Power Saving Mode	<5W	<1	DW	<15	W	<15W
Solar Charger						
Algorithm			M	РРТ		
System DC Voltage	12V	24	1V	48	V	48V
Max PV Input Voc	102V	75	5V	145	5V	450V
MPPT Range	15 - 80V	30 -	66V	60 - 1	.15V	120 - 430V
Max Charging Current/Power	40A, 500W	25A,	600W	80A, 4	000W	80A, 4500W
ENVIRONMENTAL / MECHANICAL	SPECIFICATIONS					
Certification			(	Έ		
Operating/Storage Temp.		C	)°C ~ 55°C /	-15°C~ 60°C		
Operating Humidity				on-Condensin	g	
Dimension	355*	272*100mn		46	58*295*120	Contraction of the second s
Net Weight	7.0Kg	7.0Kg	7.5Kg	12.5Kg	13.5Kg	11Kg

## (2) General Compatible Condition:

Battery Type	US2000B/US2000BPlus/Phantom-S/US3000
Recommend	According to load requirement and inverter rated power.
battery Amount	Battery Amount N = Load power/1200W
Communication	Not required, but need finish the setting on Inverter.
DOD	80%
Working Temp.	0 - 50℃(Indoor operation)
Charge/Dischar	N*25, N = Battery amount
ge Current	
Warranty	Refer to each country`s warranty terms, please contact your distributor





- (3) Inverter set up:
- (a) Connect Inverter with battery, wake up inverter.



(b) Press 'Enter' for 5s, to enter into the setting.







Press 'Up' and 'Down' to choose the setting item No., press 'Enter' to enter into the detailed setting parameter, when finish press 'Enter' again. The following setting items need to be set follow the recommended value:

Item No.	Setting Value
Program 02	Set to N*25A, N=battery amount, If $N = 1, 3, minus single digit$
Program 05	Set to USE
Program 12	Set to 48V
Program 13	Set to 51V
Program 26	Set to 53.2V
Program 27	Set to 53.2V
Program 29	Set to 47.5V



#### Note:

- 1. PIP Inverters can only be waked up via battery, if the battery is turned off due to over-discharge, over temp. or other reasons, in order to wake up the inverter you need turn on the battery manually.
- 2. As there is no communication between inverter and battery, for a better using experience, it's also acceptable to introduce monitoring device to visually display the real-time information from battery management system via the communication channel, such as Inverter Control Center(ICC) from centurionsolar. Same as the inverter compatibility condition, <u>such a monitoring system needs get authorization from Pylontech in advance for the compatibility before using with the products from Pylontech mentioned above, otherwise the products from Pylontech will be exclusive of warranty.</u>





- (4) Change the setting of inverter via Watchpower software:
- (a) Connect computer and inverter with a USB communication cable.



4	100			distanting the	_
10		A		-	1
6.1					
160		1	-	atalsev	105
		GABING CORE		(JOSEN	
	8			00	
1	-	0	े 🔳		
		COM	NC	C NO	
				PV	

(b) Run Watchpower software, click the icon marked with red circle in picture 1, to open the login dialog.

1 💾 🔤 👪	Guest Monitored device: L	JSB87C55B3_5535553555355				
20170502-PC.vcn.vol.corp			Basic Information			
USB87C55B3_55355535553555		Battery Mo	AC voltage:		Battery discharge current:	
					Output voltage:	
	🦪 1		PV input voltage:		Output frequency:	
		inverter.	PV input power.		Output apparent power:	
		Source	: Battery Battery voltage:		Output active power.	
			Battery capacity.		Load percent	
			Charging current			
	Product Information		Rated information			
			Nominal AC voltage:			
					Nominal output current	
			Rated battery voltage:			



(c) Input the password in the dialog as picture 2, the default password is 'administrator' , then click 'login'.

WatchPower				
WatchPower configuration Device control	I View Language Help			
📑 🛐 📼 🚯	Guest Monitored device: US887C5583_55355535553555			
20170602-PC.vcn.vol.corp		Basic information		
USB87C5583_55355535553555	Battery Mode	AC voltage: 0.0 V	Battery discharge current	0.0 A
			Output voltage:	230.0 V
		PV input voltage: 0.0 V	Output frequency:	50.0 Hz
	Inverter.	PV input power. 0 W	Output apparent power.	0.0 VA
	Login 2 administrator	Battery voltage: 47.99 V	Output active power:	0.0 W
	Please logit frot	Battery capacity: 57 %		0 %
	Password	Charging current 0.0 A		
	Product Information F	Cated information		
	Model type: Stand alone	Nominal AC voltage: 230.0 V	Nominal output frequency.	50.0 Hz
			Nominal output current:	13.0 A
	Main CPU version: 00020.16	Rated ballery voltage: 48.0 V	Nominal output apparent power:	3000.0 VA
				3000.0 W

Picture 2

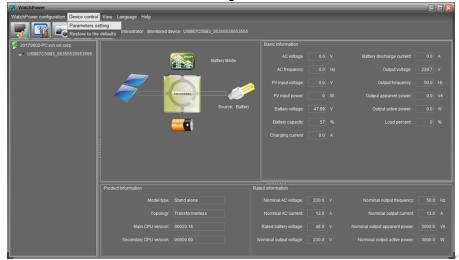


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(d) Select 'Device control'-> 'Parameters Setting'.

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(e) Change the 'maximum charging current', 'battery type', 'back to grid voltage', 'back to discharge voltage', 'CV voltage', 'floating charging voltage' in the setting page, all these setting must be set to the value listed in below table. Select the right value, then click 'Apply' for the changes to take effect.

Item No.	Setting Value
Program 02	Set to N*25A, N=battery amount, If N = 1, 3, minus single digit
Program 05	Set to USE
Program 12	Set to 48V
Program 13	Set to 51V
Program 26	Set to 53.2V
Program 27	Set to 53.2V
Program 29	Set to 47.5V

Parameters setting						×
Buzzer a	larm: 🔿 Enable 💿 Disable	Apply	Beeps while primary	source interrupt: 🏾 🗨 Er	nable 🔿 Disable	Apply
Back	dight: 💿 Enable 🔵 Disable	Apply		overload bypass: 🔘 Er	nable 💿 Disable	Apply
Overload auto re	start 🔘 Enable 🖲 Disable	Apply LC	CD screen returns to default display scr	een after 1 min.: 💿 Er	nable 🔿 Disable	Apply
Over temperature auto re	start. 🔘 Enable 🖲 Disable	Apply		ault code record: 🔘 Er	nable 🔘 Disable	Apply
Charger source priority:	Utility	Appl	Back to grid voltage:		V V	Apply
Output source priority:	Utility	Appl	Max. charging current:		- A	Apply
AC input range:	Appliance	Appl	y Max. AC charging current:		- A	Apply
Battery type:	AGM	Арр	Back to discharge voltage:	54.0	👻 V	Apply
Output frequency:		Hz App	y)			
Bulk charging voltage(C.)	V. voltage): 56.4 🚔 V 📝	Apply		Battery cut-off voltage	: 42 🗧 V	Apply
Float chargin	ng voltage: 54 🚆 V 🛃	oply				
- Battery equalization setting						
Battery equalization:	) Enable 💿 Disable Apply	]	Real-time activate batt	ery equalization: 🔵 Act	tivate 🖲 Cancel	Apply
Equalization time:	60 🗧 Min 🛛 Apply			Equalization voltage:	58.4 🚆 V	Apply
Equalization period:	30 Day(s) Apply			Equalization timeout	120 🗧 Min	Apply
						Close



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# **PIP-GK INVERTER SETUP SOP - PYLONTECH BATTERY**

# PIP5048GK

INVERTER MODEL		5KW		
Line Mode Specification				
Input Voltage Waveform		Sinusoidal (utility or generator)		
Nominal Input Voltage		230Vac		
Max AC Input Voltage		300Vac		
Inverter Mode Specification				
Output Voltage Waveform		Pure Sine Wave		
Output Voltage Regulation		230Vac±5%		
Peak Efficiency		93%		
Overload Protection		5s@≥130% load; 10s@105%~130% load		
Surge Capacity		2* rated power for 5 seconds		
Nominal DC Input Voltage		48Vdc		
Cold Start Voltage		46.0Vdc		
Low DC Warning Voltage				
@ load < 50%		46.0Vdc		
@ load ≥ 50%		44.0Vdc		
Low DC Warning Return Voltage			_	
@ load < 50%		47.0Vdc		
@ load ≥ 50%		46.0Vdc	_	
Low DC Cut-off Voltage				
@ load < 50%		43.0Vdc		
@ load ≥ 50%		42.0Vdc		
High DC Recovery Voltage		62Vdc		
High DC Cut-off Voltage		63Vdc		
Charge Mode Specification				
INVERTER MODEL				
Charging Algorithm		3-Step		
AC Charging Current (Max)		60Amp (@VI/P=230Vac)		
	Flooded Battery	58.4		
Bulk Charging Voltage	AGM / Gel Battery	56.4		
Floating Charging Voltage		54Vdc		
MPPT Solar Charging Mode	·			
Max. PV Array Power		4000W		
Nominal PV Voltage		240Vdc		
Start-up Voltage		150Vdc +/- 10Vdc		
PV Array MPPT Voltage Range		120~450Vdc		
Max. PV Array Open Circuit Volta	ge	500Vdc		
Max Charging Current (AC charg	er plus solar charger)	80Amp		
General				
Operating Temperature Range		-10°C to 50°C		
Storage temperature		-15°C~ 60°C		
Humidity		5% to 95% Relative Humidity (Non-condensing)		
Dimension (D*W*H), mm		115 x 300 x 440		
Net Weight, kg		10		
Communication Interface		RS232+RS485+USB+BLE+CAN		



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### (2) General Compatible Condition:

Battery Type	US2000B/US2000BPlus/Phantom-S/US3000
Inverter Type	PIP 5048GK
Recommend	According to load requirement and inverter rated power.
battery Amount	Battery Amount N = Load power/1200W
Communication	Not required, but need finish the setting on Inverter.
DOD	80%
Working Temp.	0 - 50°C(Indoor operation)
Charge/Discharge Current	N*25, N = Battery amount
Warranty	Refer to each country's warranty terms, please contact your distributor

### (3) Inverter set up:

### Method1: Through WatchPower

(a) Connect PV or Grid power to wake up inverter; connect the communication cable (USB to RS232/micro-USB cable) from Inverter to computer.



(b) Open 'WatchPower.exe' (the inverter set up software).

WatchPower configuration Device control	View Language Help				
	Guest Monitored device: USB2	D5AD925_92931805104429			
💆 VTW-Sandy.vtw.vol.corp			Basic information		
USB2D5AD925_92931805104429		Battery Mode	AC voltage:	Charging current	
				Battery discharge current:	
			PV input voltage:	Output voltage:	
		otter	PV input current:	Output frequency:	
		Source: Batter	PV input power:	Output apparent power:	
		+0	Battery voltage:	Output active power:	
			Battery capacity:		
	Product Information		Rated information		
	Model type:	Stand alone	Nominal AC voltage:	Nominal output frequency:	
		Transformerless		Nominal output current:	
	Main CPU version:		Rated battery voltage:	Nominal output apparent power:	
	Remote Panel CPU version:		Nominal output voltage:	Nominal output active power:	
	BLE CPU version:	0000.21			



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#### (c) Press 'Parameters Setting'.

Y Tratem oner	J			_	_		_	
WatchPower configuration Device control	View Language Help							
Parameters se Restore to the	Logitared devices LICRODEADORE 000040	305104429						
VTW-Sandy.vtw.vol.corp			Basic information					
USB2D5AD925_92931805104429	Ва	attery Mode	AC voltage:			Charging current:		
						Battery discharge current:		
			PV input voltage:			Output voltage:		
	Inverter					Output frequency:		
		Source: Battery	PV input power:			Output apparent power:		
			Battery voltage:			Output active power:		
			Battery capacity:					
	Product Information	Rat	ted information					
	Model type: Stand alone		Nominal AC voltage:			Nominal output frequency:	60.0	
	Topology: Transformerless					Nominal output current:		
	Main CPU version: 00010000		Rated battery voltage:			Nominal output apparent power:	5000.0	
	Remote Panel CPU version: 0001.13		Nominal output voltage:			Nominal output active power:		
	BLE CPU version: 0000.21							

(d) Set the parameter according to below recommendation, the max. charge current refer to the specific battery amount of real application. Then click 'Apply', enter password to login. According to the inverter limitation, for 5kW max is 80A.

MatchPower	Parameters setting							$\mathbf{X}$		
WatchPower configu	Buzzer a	larm: 💿 Enable 🔿 Dis	able Apply		Beeps while primary	source interrupt: 💿 Enat	ole 🕥 Disable Apply			
	Back	dight: 💿 Enable 🔘 Dis	able Apply			Overload bypass: 🔘 Enat	ole 💿 Disable Apply			
VTW-Sandy.vtw.vc	Overload auto re	start: 🔘 Enable 🖲 Dis	able Apply	LCD screen returns	s to default display scr	reen after 1 min.: 🌘 Enat	ole 🔘 Disable 🔥 Apply	n	t 🗌 d	D.0 A
	Over temperature auto re	start: 🔵 Enable 🖲 Dis	able Apply			ault code record: 💿 Enat	ole 🔿 Disable Apply	e		9.9 V
	Charger source priority:	Solar only	-	Apply	Output voltage:		V Apply	3		0.0 Hz
	Output source priority:	Utility	- ▼	Apply	Back to grid voltage:		V Apply	91		D.0 VA
	AC input range:	Appliance	Login		×		A Apply	e		D.0 W
	Battery type:			Please login first			A Apply	h		0 %
	Output frequency:	60	Password:	Login Clear			V Apply			
	Bulk charging voltage(C.)	V. voltage): 53.2 🗧 V	L			Battery cut-off voltage:	47 V Apply			
	Float chargir	ng voltage: 53.2 📮 V	Apply							
	Battery equalization setting									
	Battery equalization: C	) Enable 💿 Disable 🗛	ply		Real-time activate batt	ery equalization: 🔵 Activa	ite 💿 Cancel Apply		60.0	D Hz
	Equalization time:	60 🕂 Min Apply				Equalization voltage:	58.4 🗧 V Apply		21.7	7 A
	Equalization period:	30 Day(s) Apply				Equalization timeout:	120 🗧 Min Apply		5000.0	
							Clos	30	5000.0	v v





### Method2: Through remote panel

(a) Connect Inverter with battery, wake up inverter.



(b) Press 'Enter' for 5s, to enter into the setting.



(c) Press 'Up' and 'Down' to choose the setting item No., press 'Enter' to enter into the detailed setting parameter, when finish press 'Enter' again. The following setting items need to be set follow the recommended value:







### Recommended value:

Item No.	Setting Value
Program 02	Set to N*25A, N=battery amount, If N = 1, 3, minus single digit
Program 05	Set to USE
Program 12	Set to 48V
Program 13	Set to 51V
Program 26	Set to 53.2V
Program 27	Set to 53.2V
Program 29	Set to 47.5V

\*for additional question please feel free to contact us at sales@mppsolar.com