



# MPI HYBRID INVERTER SETUP SOP - PYLONTECH BATTERY

(1) Inverter Spec.:

Continuous Output3,000W4,000W5,000W5,500W10,000WParallel-ReadyNoYesYesNoYesWax PV Input Fatting (GRID-TIE) </th <th>MPI HYBRID SERIES</th> <th>ЗК</th> <th><b>4K</b></th> <th>5K</th> <th>5.5K</th> <th>10K</th>	MPI HYBRID SERIES	ЗК	<b>4K</b>	5K	5.5K	10K
Parallel-Ready         No         Yes         Yes         No         Yes           PV Input Rating (GRID-TIE)   No         Yes         No         Yes         No         Yes         No         Yes         Yes         No         Yes	Rated Power					
PV Input Rating (GRID-TIE)         Vinput Power         4,500W         5,000W         10,000W         6,500W         14,850W           Max PV Input Voltage         500Vdc         580Vdc         900Vdc         500Vdc         300 vdc         900Vdc         300Vdc         320 / 350 Vdc         350 / 560 Vdc         360 Vdc         70 / 320 Vac / 350 Vdc         326 / 250 Vdc         72 / 328 / 360 Vdc         72 / 328 / 360 Vdc<	Continuous Output	3,000W	4,000W	5,000W	5,500W	10,000W
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         120 - 500Vdc         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           MAX DC/AC Conversion         >96%         >96%         >96%         >         >           AC Input         Max AC 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         Nominal AC Output Voltage         208/220/230/240Vac, Single Phase         400Vac, 3-Phase         184 - 265Vac (P-A / 318 - 460Vac (P-A / 50 / 60.05 / 60.05 HZ         184 - 265Vac (P-A / 318	Parallel-Ready	No	Yes	Yes	No	Yes
Max PV Input Voltage         S00Vdc         S80Vdc         900Vdc         S00Vdc         900Vdc           Start-up / Initial Feeding Voltage         116 / 150Vdc         116 / 150Vdc         220 / 250 Vdc         116 / 150Vdc         320 / 350 Vdc           Voltage         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           MAX DC/AC Conversion Efficiency         1         1         2         2         2           Max DC/AC Conversion Efficiency         -96%         -         -         -         -           Max A Ciput         -	PV Input Rating (GRID-TIE)					
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         2           MAX DC/AC Conversion Efficiency         >96%         -         100 x 2         180 x 2         13A x 2         18A x 2           Start-up / Auto Restart         120 - 140Vac / 180Vac         -         100 x 2         180 x 2         184 x 2           Nominal Frequency         50 / 60 Hz         -         -         -         -         -           Nominal AC Output Voltage         208/220/230/240Vac, Single Phase         400Vac, 3-Phase         184 - 265Vac (P-h / 318 - 460Vac (P	Max PV Input Power	4,500W	5,000W	10,000W	6,500W	14,850W
Voltage         116 / 150Vdc         116 / 150Vdc         220 / 250 Vdc         116 / 150Vdc         320 / 350 Vdc           PV MPT 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           Max DC/AC Conversion         >96%         >         2         2         2           Max DC/AC Conversion         >96%           >96%            Start-up / Auto Restart         120 - 140Vac / 180Vac          186 / 150Vac         2         2           Nominal Frequency         50 / 60 Hz             30A         40A         40A         40A         25A           AC Output         30A         40A         40A         40A         25A           38 - 460Vac (P-00Vac)         38 - 460Vac (P-0Vac)	Max PV Input Voltage	500Vdc	580Vdc	900Vdc	500Vdc	900Vdc
Vortage         Dot Assource	Start-up / Initial Feeding	116 / 150Vdc	116 / 150Vdc	220 / 250 Vdc	116 / 150Vdc	320 / 350 Vdc
Max PV Input Current         18A         18A         10A x2         13A x2         18A x2           MMX PV Input Current         1         1         2         2         2           Max DC/AC Conversion Efficiency         -         -         -         96%         -           Start-up / Auto Restart         120 - 140Vac / 180Vac         -         2         2           Input Voltage Range         -         170 - 280Vac         -         -           Nominal Frequency         50 / 60 Hz         -         40A 25A         -           Max AC Input Current         30A         40A         40A         40A         25A           AC Output Noltage Range         -         184 - 265Vac         184 - 265Vac (P-N / 318 - 460Vac (P         -           Output Voltage Range         1004 - 25A 51.5Hz / 59.3 - 60.5 Hz         -         -         -           Output Frequency (GRID-TIE)         -         50 / 60Hz, auto-sensing         -         -           Output Frequency (GRID-TIE)         50 / 60Hz, auto-sensing         -         -         -           Max Output Power (via grid relay)         5,100W         6,000W         7,000W         6,500W         16,000W           Max Output Power (via grid relay)         5,100W			422 5224			
MPPT Tracker         1         1         2         2         2           Max DC/AC Conversion Efficiency         ->96%         ->96%         ->96%         AC Input         ->96%         AC Input         ->96%         ->96%         AC Input         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->96%         ->>96%         ->>96%         ->>>         ->>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		2				CALCON PLATE SERVICES
Max DC/AC Conversion Fficiency         >96%           AC Input         >96%           AC Input Auto Restart         120 - 140Vac / 180Vac           Input Voltage Range         170 - 280Vac           Nominal Frequency         50 / 60 Hz           Max AC Input Current         30A         40A         40A         40A           AC Output         30A         40A         40A         40A         25A           Max AC Input Current         30A         40A         40A         40A         25A           AC Output         Max AC Input Current         30A         40A         40A         40A         25A           Max Coutput Voltage         208/220/230/240Vac, Single Phase         400Vac, 3-Phase         400Vac, 3-Phase           Doutput Voltage Range         184 - 265Vac         184 - 265Vac         184 - 265Vac (P-A           Output Frequency (GRID-TIE)         47.5 - 51.5Hz / 59.3 - 60.5 Hz         00utput Waveform         120 - 900Vac         184 - 265Vac         184 - 265Vac (P-A           Output Waveform         Pure Sine Wave         Max Output Power (via grid         5,100W         6,000W         7,000W         6,500W         16,000W           Max Chutput Power (via grid         5,100W         6,000W         5,000W         5,500W	Max PV Input Current	18A	18A	10A x 2	13A x 2	18A x 2
Start-up / Auto Restart         120 - 140Vac / 180Vac           Start-up / Auto Restart         120 - 140Vac / 180Vac           Input Voltage Range         50 / 60 Hz           Wax AC Input Current         30A         40A         40A         25A           Vominal Frequency         50 / 60 Hz         400A         25A           Vominal AC Output Voltage         208/220/230/24∪Vac, Single Phase         400Vac, 3-Phase           Output Voltage Range         184 - 265Vac         184 - 265Vac (P-N / 318 - 460Vac (P <d) (p<d)<="" -="" 318="" 460vac="" td="">           Dutput Frequency (GRID-TIE)         47.5 - 51.5Hz / 59.3 - 60.5 Hz         184 - 265Vac (P-N / 318 - 460Vac (P<d) (p<d)<="" -="" 318="" 460vac="" td="">           Dutput Frequency (GRID-TIE)         47.5 - 51.5Hz / 59.3 - 60.5 Hz         200utput Frequency (GRID-TIE)         47.5 - 51.5Hz / 59.3 - 60.5 Hz           Dutput Frequency (GRID-TIE)         50 / 60Hz, auto-sensing         200utput Fower (Via grid 5,100W         6,000W         7,000W         6,500W         16,000W           Viax Output Power (battery 3,000W         4,000W         5,000W         5,500W         10,000W         10,00A</d)></d)>	MPPT Tracker	1	1	2	2	2
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 Nominal AC Output Voltage 208/220/230/240Vac, Single Phase 400Vac, 3-Phase Dutput Voltage Range 184 - 265Vac 184 - 265Vac // 318 - 460Vac (P-N // 3100 400W 5,000W 5,000W 5,500W 16,000W // 0.00W // 0.				>96%		
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         30A         40A         40A         40A         25A           AC Output         30A         40A         40A         40A         25A           AC Output         Start Action         400Vac, 3-Phase         400Vac, 3-Phase         184 - 265Vac         184 - 265Vac (P-N / 318 - 460Vac (P           Output Voltage Range         184 - 265Vac         184 - 265Vac (P-N / 318 - 460Vac (P         184 - 265Vac (P-N / 318 - 460Vac (P           Output Frequency (GRID-TIE)         47.5 - 51.5Hz / 59.3 - 60.5 Hz         50 / 60Hz, auto-sensing         50 / 60Hz, auto-sensing           Output Frequency (OFF-GRID)         50 / 60Hz, auto-sensing         16,000W           Max Output Power (battery mack output Power (battery         3,000W         4,000W         5,000W         5,500W         16,000W           Max Charging Current         25A         80A         100A         60A         200A           Nominal DC Voltage         48Vdc         48Vdc         48Vdc         48Vdc         48Vdc         48Vdc         4						
Interview         Interview           Nominal Frequency         50 / 60 Hz           Wax AC Input Current         30A         40A         40A         40A         25A           AC Output         208/220/230/240Vac, Single Phase         400Vac, 3-Phase         184 - 265Vac (P-N / 318 - 460Vac (P           Dutput Voltage Range         184 - 265Vac         184 - 265Vac (P-N / 318 - 460Vac (P         184 - 265Vac (P-N / 318 - 460Vac (P           Dutput Frequency (GRID-TIE)         47.5 - 51.5Hz / 59.3 - 60.5 Hz         50         160/00W         184 - 265Vac (P-N / 318 - 460Vac (P           Dutput Frequency (OFF-GRID)         50 / 60Hz, auto-sening         50         16,000W         16,000W           Wax Output Power (via grid selay)         5,100W         6,000W         7,000W         6,500W         16,000W           Max Efficiency         3,000W         4,000W         5,000W         5,500W         10,000W           Max Charging Current         25A         80A         100A         60A         200A <td></td> <td>e.</td> <td></td> <td></td> <td></td> <td></td>		e.				
Numeral Frequency         50 / 60 Hz           VMax AC Input Current         30A         40A         40A         40A         25A           AC Output         VMax AC Input Current         30A         40A         40A         40A         25A           AC Output         Voltage         208/220/230/240Vac, Single Phase         400Vac, 3-Phase         184 - 265Vac (P-N / 318 - 460Vac (P           Dutput Voltage Range         184 - 265Vac         184 - 265Vac (P-N / 318 - 460Vac (P         ////////////////////////////////////	Start-up / Auto Restart		1	20 - 140Vac / 180	Vac	
Max AC Input Current         30A         40A         40A         40A         40A         25A           AC Output         208/220/230/240Vac, Single Phase         400Vac, 3-Phase         400Vac, 3-Phase         184 - 265Vac         184 - 265Vac (P-N / 318 - 460Vac (P           Output Voltage Range         184 - 265Vac         184 - 265Vac         184 - 265Vac (P-N / 318 - 460Vac (P           Output Frequency (GRID-TIE)         47.5 - 51.5Hz / 59.3 - 60.5 Hz         0utput Frequency (OFF-GRID)         50 / 60Hz, auto-sensing           Output Waveform         Pure Sine Wave         Max Output Power (via grid relay)         5,100W         6,000W         7,000W         6,500W         16,000W           Max Output Power (battery mode)         3,000W         4,000W         5,000W         5,500W         10,000W           Max Charging Current         25A         80A         100A         60A         200A           Nominal DC Voltage         48Vdc         48Vdc         48Vdc         200A         200A           NRNONWENTAL / MECHANICAL SPECIFICATIONS         EN62109-1, EN62109-2, EN62040-1 / CE         VDE4105, VDE0126-1-1         A54777/3100 (3K, 5.5K, 10K only)         200A           Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C         0 - 40°C	nput Voltage Range			170 - 280Vac		
AC Output         AC Output Voltage         208/220/230/240Vac, Single Phase         400Vac, 3-Phase           Output Voltage Range         184 - 265Vac         184 - 265Vac         / 318 - 460Vac (P-N/318 - 480Vac	Nominal Frequency			50 / 60 Hz		201. P
Nominal AC Output Voltage $208/220/230/240Vac, Single Phase400Vac, 3-PhaseOutput Voltage Range184 - 265Vac184 - 265Vac184 - 265Vac184 - 265Vac184 - 265Vac184 - 265Vac20100000000000000000000000000000000000$	Max AC Input Current	30A	40A	40A	40A	25A
Dutput Voltage Range         184 - 265Vac         184 - 265Vac         184 - 265Vac (P-N / 318 - 460Vac (P           Dutput Frequency (GRID-TIE)         47.5 - 51.5Hz / 59.3 - 60.5 Hz         50 / 60Hz, auto-sensing         50 / 60Hz, auto-sensing           Dutput Frequency (OFF-GRID)         50 / 60Hz, auto-sensing         50 / 60Hz, auto-sensing         16,000W           Max Output Power (via grid elay)         5,100W         6,000W         7,000W         6,500W         16,000W           Max Output Power (battery mode)         3,000W         4,000W         5,000W         5,500W         10,000W           Max Charging Current Sattery Charger         3,000W         4,000W         5,000W         5,500W         10,000W           Max Charging Current ENVIRONMENTAL / MECHANICAL SPECIFICATIONS         93%         >91%         53         50           Communication Port         RS232 / USB         EN62109-1, EN62109-2, EN62040-1 / CE         Certifications         VDE4105, VDE0126-1-1           AS4777/3100 (3K, 5.5K, 10K only)         0-40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Humidity         535*438*117m         600*460*200m         450*445*110m         622*500*16	AC Output					
Dutput Voltage Range         184 - 265Vac         / 318 - 460Vac (P           Output Frequency (GRID-TIE)         47.5 - 51.5Hz / 59.3 - 60.5 Hz            Output Frequency (OFF-GRID)         50 / 60Hz, auto-sensing            Output Waveform         Pure Sine Wave            Max Output Power (via grid)         5,100W         6,000W         7,000W         6,500W         16,000W           Max Output Power (battery easy)         3,000W         4,000W         5,000W         5,500W         10,000W           Max Charger         3,000W         4,000W         5,000W         5,500W         10,000W           Max Charger         >93%         >91%         >91%         >91%           Sattery Charger         480Vdc         480A         100A         60A         200A           ENVIRONMENTAL / MECHANICAL SPECIFICATIONS         EN62109-1, EN62109-2, EN62040-1 / CE         Communication Port         RS232 / USB           Certifications         EN62109-1, EN62109-2, EN62040-1 / CE         VDE4105, VDE0126-1-1           AS4777/3100 (3K, 5.5K, 10K only)         Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Humidity         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C         622*500*1	Nominal AC Output Voltage		208/220/230/240	OVac, Single Phase		400Vac, 3-Phase
Output Frequency (GRID-TIE)         47.5 - 51.5Hz / 59.3 - 60.5 Hz           Output Frequency (OFF-GRID)         50 / 60Hz, auto-sensing           Output Waveform         Pure Sine Wave           Max Output Power (via grid relay)         5,100W         6,000W         7,000W         6,500W         16,000W           Max Output Power (battery mode)         3,000W         4,000W         5,000W         5,500W         10,000W           Max Efficiency         3,000W         4,000W         5,000W         5,500W         10,000W           Max Efficiency         >93%         >91%         5,500W         10,000W           Battery Charger         >93%         >91%         5,500W         10,000W           Max Charging Current         25A         80A         100A         60A         200A           ENVIRONMENTAL / MECHANICAL SPECIFICATIONS         EN62109-1, EN62109-2, EN62040-1 / CE         VDE4105, VDE0126-1-1           Communication Port         RS232 / USB         EN62109-1, EN62109-2, EN62040-1 / CE         VDE4105, VDE0126-1-1           AS4777/3100 (3K, 5.5K, 10K only)         Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Temp.         0 - 40°C         0 - 90% RH (No condensing)         622*500*167mn         622*500*167mn <td>Output Voltage Range</td> <td></td> <td>184 - 2</td> <td>265Vac</td> <td></td> <td>184 - 265Vac (P-N / 318 - 460Vac (P-</td>	Output Voltage Range		184 - 2	265Vac		184 - 265Vac (P-N / 318 - 460Vac (P-
Output Waveform         Pure Sine Wave           Max Output Power (via grid relay)         5,100W         6,000W         7,000W         6,500W         16,000W           Max Output Power (battery mode)         3,000W         4,000W         5,000W         5,500W         10,000W           Max Output Power (battery mode)         3,000W         4,000W         5,000W         5,500W         10,000W           Max Efficiency         >93%         >93%         >91%         Sattery Charger         >93%         >91%           Battery Charger         Max Charging Current         25A         80A         100A         60A         200A           ENVIRONMENTAL / MECHANICAL SPECIFICATIONS         EN62109-1, EN62109-2, EN62040-1 / CE         Certifications         VDE4105, VDE0126-1-1           Communication Port         RS232 / USB         EN62109-1, EN62109-2, EN62040-1 / CE         Certifications           Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Humidity         0 - 90% RH (No condensing)         622*500*167mm	Output Frequency (GRID-TIE)		47.5	- 51.5Hz / 59.3 -	60.5 Hz	
Max Output Power (via grid relay)         5,100W         6,000W         7,000W         6,500W         16,000W           Max Output Power (battery mode)         3,000W         4,000W         5,000W         5,500W         10,000W           Max Efficiency         3,000W         4,000W         5,000W         5,500W         10,000W           Max Efficiency         >93%         >91%         Sattery Charger         >91%           Nominal DC Voltage         48Vdc         48Vdc         200A         200A           Environmentation Port         25A         80A         100A         60A         200A           Environmentation Port         RS232 / USB         EN62109-1, EN62109-2, EN62040-1 / CE         Certifications         VDE4105, VDE0126-1-1           Certifications         0-40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Temp.         0-40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Humidity         0-90% RH (No condensing)         622*500*167mm         622*500*167mm	Output Frequency (OFF-GRID)		5	0 / 60Hz, auto-ser	sing	
relay)         5,100W         6,000W         7,000W         6,500W         16,000W           Max Output Power (battery mode)         3,000W         4,000W         5,000W         5,500W         10,000W           Max Efficiency         >>3,000W         4,000W         5,000W         5,500W         10,000W           Max Efficiency         >>3,000W         4,000W         5,000W         5,500W         10,000W           Max Efficiency         >>3%         >>3%         >>1%         >>1%           Battery Charger          48Vdc           48Vdc           Max Charging Current         25A         80A         100A         60A         200A           ENVIRONMENTAL / MECHANICAL SPECIFICATIONS            200A           Communication Port         RS232 / USB              Certifications         VDE4105, VDE0126-1-1              Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Humidity         0 - 40°C         -90% RH (No condensing)         622*500*167mn	Output Waveform			Pure Sine Wave	3	
Max Output Power (battery mode)         3,000W         4,000W         5,000W         5,500W         10,000W           Max Efficiency         >93%         >91%         >91%         >91%           Battery Charger          48Vdc         >91%         >91%           Nominal DC Voltage         48Vdc          48Vdc            Max Charging Current         25A         80A         100A         60A         200A           ENVIRONMENTAL / MECHANICAL SPECIFICATIONS         RS232 / USB              Communication Port         RS232 / USB         EN62109-1, EN62109-2, EN62040-1 / CE             Certifications         VDE4105, VDE0126-1-1         AS4777/3100 (3K, 5.5K, 10K only)             Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Dimension         480*438*107m         535*438*117m         600*460*200m         450*445*110m         622*500*167mn	A REAL PROPERTY AND A REAL	5,100W	6,000W	7,000W	6,500W	16,000W
Max Efficiency         >93%         >91%           Battery Charger         A8Vdc         Max Charging Current         25A         80A         100A         60A         200A           Max Charging Current         25A         80A         100A         60A         200A           ENVIRONMENTAL / MECHANICAL SPECIFICATIONS         RS232 / USB         Communication Port         RS232 / USB         Communication Port         Certifications         VDE4105, VDE0126-1-1         VDE4105, VDE0126-1-1         AS4777/3100 (3K, 5.5K, 10K only)         Coperating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10	Max Output Power (battery	3,000W	4,000W	5,000W	5,500W	10,000W
Battery Charger         ABVIC         ABVIC           Nominal DC Voltage         48Vdc         48Vdc           Max Charging Current         25A         80A         100A         60A         200A           ENVIRONMENTAL / MECHANICAL SPECIFICATIONS         ENG2109-1, ENG2109-2, ENG2040-1 / CE         ENG2109-1, ENG2109-2, ENG2040-1 / CE         Certifications         VDE4105, VDE0126-1-1         Free Communication Port         State Provide Comparison (SK, 5.5K, 10K only)         Certifications         0 - 40°C         -10 - 50°C	modej					
Nominal DC Voltage         48Vdc           Max Charging Current         25A         80A         100A         60A         200A           ENVIRONMENTAL / MECHANICAL SPECIFICATIONS         EN62109-1, EN62109-2, EN62040-1 / CE         Communication Port         RS232 / USB           Communication Port         EN62109-1, EN62109-2, EN62040-1 / CE         Certifications         VDE4105, VDE0126-1-1           Certifications         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Temp.         0 - 40°C         0 - 90% RH (No condensing)         622*500*167mm	Max Efficiency		>9	3%		>91%
Max Charging Current         25A         80A         100A         60A         200A           ENVIRONMENTAL / MECHANICAL SPECIFICATIONS         RS232 / USB                200A         200A         200A         200A         200A         200A         200A         200A            200A         200A         200A         200A         200A         200A         200A         200A          200A         200A         200A           200A         200A         200A         200A           200A         200A            200A         200A           200A          200A            200A                           200A			>9	3%		>91%
ENVIRONMENTAL / MECHANICAL SPECIFICATIONS           RS232 / USB           Communication Port           EN62109-1, EN62109-2, EN62040-1 / CE           Certifications           VDE4105, VDE0126-1-1           AS4777/3100 (3K, 5.5K, 10K only)           Operating Temp.         0 - 40°C         - 10 - 50°C         0 - 40°C         - 10 - 50°C         - 10 - 50°C         O - 40°C         - 10 - 50°C         0 - 40°C         - 10 - 50°C         - 0 - 40°C         - 10 - 50°C         - 0 - 90% RH (No condensing)           Dimension         480*438*107m         535*438*117m         600*460*200m         450*445*110m         622*500*167mm	Battery Charger		>9			>91%
Communication Port         RS232 / USB           EN62109-1, EN62109-2, EN62040-1 / CE           Certifications         VDE4105, VDE0126-1-1           AS4777/3100 (3K, 5.5K, 10K only)           Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Humidity         0 - 90% RH (No condensing)         600*460*200m         450*445*110m         622*500*167mm	Battery Charger Nominal DC Voltage	254		48Vdc		5. 
Certifications         EN62109-1, EN62109-2, EN62040-1 / CE           VDE4105, VDE0126-1-1         AS477/3100 (3K, 5.5K, 10K only)           Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C         -10 - 50°C         -10 - 50°C         O - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C         O - 40°C         -10 - 50°C         O - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C         O - 40°C         -10 - 50°C         0 - 90% RH (No condensing)         Dimension         480*438*107m         535*438*117m         600*460*200m         450*445*110m         622*500*167mm	Battery Charger Nominal DC Voltage Max Charging Current		80A	48Vdc	60A	5. 5.
Certifications         VDE4105, VDE0126-1-1           AS4777/3100 (3K, 5.5K, 10K only)           Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Humidity         0 - 90% RH (No condensing)         600*460*200m         450*445*110m         622*500*167mm	Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC		80A	48Vdc 100A	60A	5. 5.
AS4777/3100 (3K, 5.5K, 10K only)           Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Humidity         0 - 90% RH (No condensing)         622*500*167mm           Dimension         480*438*107m         535*438*117m         600*460*200m         450*445*110m         622*500*167mm	Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC		80A <b>IS</b>	48Vdc 100A RS232 / USB		5. 5.
Operating Temp.         0 - 40°C         -10 - 50°C         0 - 40°C         -10 - 50°C           Operating Humidity         0 - 90% RH (No condensing)         600*460*200m         450*445*110m         622*500*167mm	Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port		80A IS EN62109-	48Vdc 100A RS232 / USB 1, EN62109-2, EN	52040-1 / CE	5. 5.
Operating Humidity         0 - 90% RH (No condensing)           Dimension         480*438*107m         535*438*117m         600*460*200m         450*445*110m         622*500*167mm	Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port		80A IS EN62109-	48Vdc 100A RS232 / USB 1, EN62109-2, EN	52040-1 / CE	5. 
Dimension         480*438*107m         535*438*117m         600*460*200m         450*445*110m         622*500*167mm	Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port		80A IS EN62109- V	48Vdc 100A RS232 / USB 1, EN62109-2, EN DE4105, VDE0126	52040-1 / CE -1-1	
	Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port Certifications	AL SPECIFICATION	80A IS EN62109- V AS477	48Vdc 100A RS232 / USB 1, EN62109-2, EN DE4105, VDE0126 7/3100 <b>(3K, 5.5K,</b>	52040-1 / CE -1-1 <b>10K only)</b>	200A
Net Weight 16Kg 17Kg 29Kg 16Kg 45Kg	Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port Certifications Operating Temp.	AL SPECIFICATION	80A IS EN62109- V AS477	48Vdc 100A RS232 / USB 1, EN62109-2, EN DE4105, VDE0126 7/3100 <b>(3K, 5.5K,</b> -10 - 50°C	52040-1 / CE -1-1 <b>10K only)</b> 0 - 40°C	200A
	Max Efficiency Battery Charger Nominal DC Voltage Max Charging Current ENVIRONMENTAL / MECHANIC Communication Port Certifications Operating Temp. Operating Humidity Dimension	AL SPECIFICATION	80A JS EN62109- V AS477 0°C 0 -	48Vdc 100A RS232 / USB 1, EN62109-2, EN DE4105, VDE0126 7/3100 <b>(3K, 5.5K,</b> -10 - 50°C 90% RH (No conde	52040-1 / CE -1-1 <b>10K only)</b> 0 - 40°C ensing)	200A



Pylon Technologies Co., Ltd. No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park Pudong.

Shanghai 201203, China



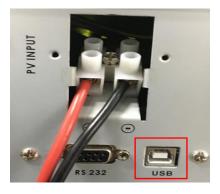
(=) ••••••							
Battery Type		US2000B/US2000BPlus/Phantom-S/US3000					
Inverter Type	MPI 3K	MPI 5K	MPI 10K				
Recommend	According to load	According to load requirement and inverter rated power.					
battery Amount	Battery Amo	Battery Amount N = Load power/1200W					
Communication	Not required, but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

#### (2) General Compatible Condition:

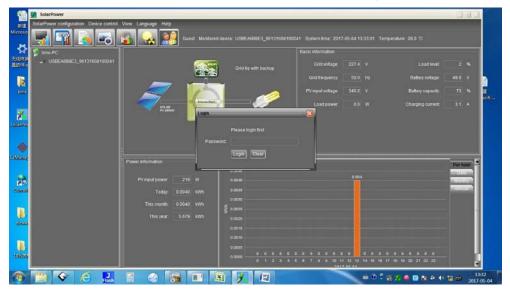
(3) Inverter set up:

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





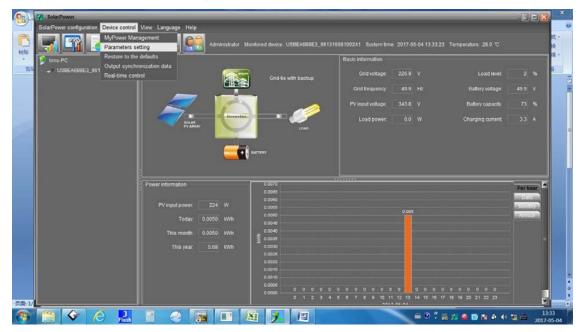
(b) Open 'Solarpower.exe'(the inverter set up software), Log in .







(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			



Pylon Technologies Co., Ltd. No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park Pudong. Buying Solar should be this easy

# **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 YES, MAX 9 UNITS							
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%	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), <20ms (Appliance 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
Program 05	Set to USE
Program 12	Set to 48V
Program 13	Set to 51V
Program 26	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			-	_
10		A		-	1
6.1					
160		1.000	-	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.	
		<b></b> -1	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



Pylon Technologies Co., Ltd. No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park Pudong,



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

Shanghai 201203, China

5 WatchPower							
WatchPower configuration Device control Vie	w Language Help						
Parameters setting							
💯 20170602-PC.vcn.vol.corp				Basic information			
		Bat	tery Mode			Battery discharge current:	A
	<i>Z</i> 1						
		Inverter					
		Y	Source: Battery	Battery voltage:			
				Battery capacity:			
				Charging current:			
Pro	oduct Information			ated information			



(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	Setting Value
Maximum charging current	Set to N*25A, N=battery amount
Battery type	Set to USE
Back to grid voltage	Set to 48V
Back to discharge voltage	Set to 51V
Bulk charging voltage	Set to 53.2V
Float charging voltage	Set to 47.5V

Parameters setting		
Buzzer alarm: 🔿 Enable 💿 Disable Apply	Beeps while primary source interrupt: • Enable 🔿 Disable	Apply
Backlight 💿 Enable 🕥 Disable Apply	Overload bypass: 🔿 Enable 💿 Disable	Apply
Overload auto restart: O Enable O Disable Apply	LCD screen returns to default display screen after 1 min.:   Enable  Disable	Apply
Over temperature auto restart: O Enable O Disable Apply	Fault code record: 🔘 Enable 🌑 Disable	Apply
Charger source priority: Utility	Apply. Back to grid voltage: 46.0 V	Apply
Output source priority: Utility	Apply Max charging current 60	Apply
AC input range: Appliance	Apply: Max. AC charging current 15	Apply
Battery type: AGM	Apply Back to discharge voltage: 54.0 V	Apply
Output frequency: 50 Hz	Apply	
Bulk charging voltage(C.V. voltage): 56.4 V Apply	Battery cut-off voltage: 42 V	Apply
Float charging voltage: 54 V Apply		
Battery equalization setting		
Battery equalization: 🔿 Enable 💿 Disable Apply	Real-time activate battery equalization: O Activate   Cancel	Apply
Equalization time: 60 🚍 Min Apply	Equalization voltage: 58.4 🚔 V	Apply
Equalization period: 30 Day(s) Apply	Equalization timeout 120 Hin	Apply
		Close



Pylon Technologies Co., Ltd. No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park Pudong,



# **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 Voltage		500Vdc					
Max Charging Current (AC charger 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					



Pylon Technologies Co., Ltd. No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park Pudong.

Shanghai 201203, China



### (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: USB2D!	5AD925_92931805104429			
💆 VTW-Sandy.vtw.vol.corp			Basic information		
USB2D5AD925_92931805104429		Battery Mode	AC voltage:	Charging current:	
				Battery discharge current:	
			PV input voltage:	Output voltage:	
			PV input current:	Output frequency:	
		Source: Battery	PV input power:	Output apparent power:	
		• 0	Battery voltage:	Output active power:	
			Battery capacity:		
	Product Information		ated information		
	Model type: S	Stand alone	Nominal AC voltage:	Nominal output frequency:	
		Transformerless		Nominal output current:	
	Main CPU version: 0	00010000	Rated battery voltage:	Nominal output apparent power:	
	Remote Panel CPU version: 0		Nominal output voltage:	Nominal output active power:	
	BLE CPU version: 0				



Pylon Technologies Co., Ltd.

No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park Pudong, Shanghai 201203, China



#### (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