

All In One Home Energy System



Flexible Expansion



Multi Input Power Mode
(PV, Grid, Diesel)



WiFi Remote Monitoring



Max 1C Charge and Discharge



IP54 Rating



Easy Installation

	GPSO-03KL1-025S1	GPSO-03KL5L1-050S1	GPSO-05KL1-050S1	GPSO-10KL1-100S2
PV (DC Input)				
Recommended max.PV input power	6000W	6000W	8000W	16000W
Max.input voltage(Voc)	500V	500V	500V	500V
MPPT operating voltage range	85V-450V(@85V start up)	85V-450V(@85V start up)	85V-450V(@85V start up)	85V-450V(@85V start up)
Number of MPPT	1	1	1	2
Max.number of input strings per MPPT	1	2	2	2
Max.input current per MPPT	15A	27A	27A	27/27A
Max.short-circuit current per MPPT	18A	35A	35A	35/35A
Grid (AC Input)				
Max input power	6000W	4500W	10000W	16000W
Max input current	26A	37.5A	45A	78A
Rated grid voltage	220/230/240Vac	110/120/127V (L,N)	220/230/240Vac	220/230/240Vac
Rated grid frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Acceptable range	170-280Vac(For UPS); 90-280Vac (For Home Appliances)	90-140 Vac (For UPS) ; 80-140 Vac (For Home Appliances)	170-280Vac(For UPS); 90-280Vac (For Home Appliances)	170-280Vac(For UPS); 90-280Vac (For Home Appliances)
Battery Parameters (Bidirection)				
Battery type	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Battery voltage range	40~60Vdc	40~60Vdc	40~60Vdc	40~60Vdc
Max.charge/discharge current	50A/50A	100A/100A	100A/100A	200A/200A
Nominal Battery Energy/pack Quantity	2.56kWh	5.12kWh	5.12kWh	2*5.12kwh
Battery Capacity	50AH	100AH	100AH	100AH
Max Parallel Quantity/Energy	4 / 10.24KWH	4 / 20.48KWH	4 / 20.48KWH	4 / 20.48KWH
Back-up (AC Output)				
Rated output power	3000W/3000VA	3500W/3500VA	5000W/5000VA	10000W/10000VA (Twin output)
Rated output current	13.6A	29.2A	22.7A	44.5A
Rated output voltage/Frequency	220/230/240Vac 50/60Hz	220/230/240Vac 50/60Hz	220/230/240Vac 50/60Hz	220/230/240Vac 50/60Hz
Parallel Capacity	Single-phase Max. 12 units Three-phase Max. 12 units	Single-phase Max. 12 units Three-phase Max. 12 units	Single-phase Max. 12 units Three-phase Max. 12 units	Single-phase Max. 6units Three-phase Max. 12 units
Surge power	6000VA 5s	7000VA 5s	10000VA 5s	20000VA 5s
THDV(@linear load)	<3%	<3%	<3%	<3%
Switching time	10ms typical (For UPS)20ms typical(For Home Appliances)			
Efficiency				
Peak efficiency	95%	98%	98%	98%
Max.MPPT efficiency	99.9%	99.9%	99.9%	99.9%
Protection				
Inner protection	√Output short-circuit protection √output overvoltage protection			
Surge protection	PV: Type III, AC: Type III			
IP rating	IP54	IP54	IP54	IP54
General Parameters				
Operating temperature range	-10℃~55℃	-10℃~55℃	-10℃~55℃	-10℃~55℃
Relative humidity range	5%~95%	5%~95%	5%~95%	5%~95%
System dimensions(L*W*H)(mm)	525*410*470	650*480*445.8	650*480*445.8	650*480*645.8
System weight(kg)	49.5	74.4	74.4	139.1
Warranty Period	3 Years	3 Years	3 Years	3 Years