

SYGHB VMII Plus



Technical Features



Update Circuit and Control Program



Built-in MPPT Solar Charge Controller



High PV Input Voltage Range 120-500VDC



Support to work with lithium battery



Built-in Wifi Function

Solar System Connection



## Technical specifications

Model	SYGHB3024	SYGHB5048
Rated Power	3000W	5000W
<b>Line Mode ( Bypass Mode )</b>		
AC Input Voltage	230Vac	
AC Input Range	90~280Vac(Appliances); 170Vac~280Vac(UPS)	
Max AC Input Voltage	300Vac	
Nominal Input Frequency	50Hz / 60Hz (Auto detection)	
AC Input Frequency Range	40~65 ± 1Hz; (>42 or <63 ± 1Hz comeback)	
Output Short Circuit Protection	Circuit Breaker	
Efficiency (Line Mode)	>95% ( Rated R load, battery full charged )	
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)	
Waveform	pure sine wave	
<b>Utility Charging Mode</b>		
Charging Algorithm	3-Step	
AC Charging Current (Max)	60Amp (@V <sub>IP</sub> =230Vac)	60Amp (@V <sub>IP</sub> =230Vac)
Bulk Charge Voltage-Flooded Battery	29.2	58.4
Bulk Charge Voltage-AGM / Gel Battery	28.2	56.4
Floating Charging Voltage	27Vdc	54Vdc
<b>MPPT Solar Charging &amp; Invert Mode</b>		
Max. PV Array Power	4000W	6000W
PV Array MPPT Voltage Range	120-450VDC	
Max. PV Open-Circuit Voltage	500Vdc	
Max Charging Current	100A	
<b>Invert Mode</b>		
Peak Efficiency	93%	
Overload Protection	5s@≥150% load; 10s@110%~150% load	
Surge Capacity	6KW for 5S	10KW for 5S
Nominal Battery Input Voltage	24Vdc	48Vdc
Cold Start Voltage	23.0Vdc	46.0Vdc
High DC Cut-off Voltage	33Vdc	63Vdc
<b>Physical</b>		
Device Size	11 x 31 x 36 (CM)	11*31*42(CM)
Carton Size	50*40*22 (CM)	55*40*22 (CM)
Gross Weight	8.KG	10.7KG