



## LP Range IP65



## DATASHEET

SM3.6kWLLL65/SM3.6kWPLL65  
SM6.0kWLLL65/SM6.0kWPLL65  
SM7.2kWLLL65/SM7.2kWPLL65  
SM8.0kWLLL65/SM8.0kWPLL65  
SM10.0kWLLL65/SM10.0kWPLL65  
SM12.0kWLLL65/SM12.0kWPLL65

[www.sunsynk.com](http://www.sunsynk.com)  
[sales@sunsynk.com](mailto:sales@sunsynk.com)  
[customerservices@sunsynk.com](mailto:customerservices@sunsynk.com)

## Product Parameters

### Note

Specifications, approvals and certification are subject to change without prior notice. Please confirm the current status with Sunsynk before placing an order.

Model	SM(X.X)kWLLL65 / SM(X.X)kWPLL65					
	3.6	6.0	7.2	8.0	10.0	12.0
<b>Battery Input Parameters</b>						
Supported Battery Type	LiFePO4 or Lead-Acid					
Battery Input Voltage Range	40~60V					
Max. Charge Voltage	60V (Configurable)					
Max. Charge Current (Configurable)	60A	120A	135A	150A	180A	220A
Max. Discharge Current (Configurable)	80A	130A	165A	180A	220A	260A
Battery Capacity (Recommended)	100~2000Ah					
Charge for LiFePO4 Battery Pack	Communicating with BMS of the Battery Pack					
<b>PV String Input Parameters</b>						
Max. DC Input Power	7200W	9000W	10000W	12000W	15000W	18000W
DC Input Voltage	500V					
MPPT Voltage Range	120~450V					
Start-Up Voltage	150V					
Max. Input Current	15A x 2 = 30A (2 MPPT Channels)	18A x 2 = 36A (2 MPPT Channels)	23A x 2 = 46A (2 MPPT Channels)	28A x 2 = 56A (2 MPPT Channels)	30A x 2 = 60A (2 MPPT Channels)	
<b>AC Output Parameters (Back-Up)(Feed to Essential Load)</b>						
Max. Output Power	3600W	6000W	7200W	8000W	10000W	12000W
Max. Output Apparent Power	3600VA	6000VA	7200VA	8000VA	10000VA	12000VA
Peak Output Apparent Power	7200VA	12000VA	14400VA	16000VA	20000VA	24000VA
Max. Output Current	16A	27A	33A	36A	45A	55A
Nominal Output Voltage	220/230/240Vac Single-Phase (Configurable)					
Nominal Output Frequency	50/60Hz (+/-0.2%) (Configurable)					
Max. Bypass Current	40A		42A		63A	
Shift Time (Bypass and Inverter)	10ms					
Output THDv (Resistor Load)	<3%					

Model	SM(X.X)kWLLL65 / SM(X.X)kWPLL65					
	3.6	6.0	7.2	8.0	10.0	12.0
<b>AC Input Parameter</b> (On-Grid)(Bypass to Essential Load & Charge the Battery/Feed to Home Load)						
Max. Input Power (Bypass to Essential Load/Charge the Battery)	3600W	6000W	7200W	8000W	10000W	12000W
Max. Output Power (Feed to Home Load)	3600W	6000W	7200W	8000W	10000W	12000W
Max. Apparent Input Power (Bypass to Essential Load/Charge the Battery)	3600VA	6000VA	7200VA	8000VA	10000VA	12000VA
Max. Apparent Output Power (Feed to Home Load)	3600VA	6000VA	7200VA	8000VA	10000VA	12000VA
Nominal Input/Output Voltage	220/230/240Vac Single-Phase (Auto Adjusted to Fit Home Grid)					
Nominal Input/Output Frequency	50/60Hz (Auto Adjusted to Fit Home Grid)					
Max. Bypass Current	40A		42A		63A	
Shift Time (Bypass and Inverter)	10ms					
<b>Efficiency</b>						
Max. Efficiency	97.6%					
Max. Battery to Load Efficiency	94.0%					
Europe Efficiency	97.6%					
MPPT Efficiency	99.9%					
<b>Protection</b>						
Integrated	Battery Over-Charge Protection, Battery Low-Voltage Protection, Over-Temperature Protection, Output Overload Protection, Output Short Circuit Protection, Output Over-Voltage Protection					
<b>Compliances</b>						
Grid Regulation	Approvals and certifications are subject to change without prior notice. Please confirm the current status with Sunsynk before placing an order.					
EMC/Safety Regulation						
<b>General Information</b>						
Operating Temperature Range	-20°C ~ +50°C (>35°C Derating)					
Protection Degree	IP65					
Dimension	450x435x230mm	500x484x228mm	550x535x235mm		620x585x255mm	
Weight	22kg	26.5kg	27kg		36kg	



## Contact Us

---

**Call** +44 151 832 4300 **Email** [sales@sunsynk.com](mailto:sales@sunsynk.com) **Website** [www.sunsynk.com](http://www.sunsynk.com)

- Address**
- HK** Room 702-704, 7/F Texwood Plaza, 6 How Ming Street, Kwun Tong, Kowloon, Hong Kong
  - UK** Sunsynk UK Ltd, 17 Turnstone Business Park, Mulberry Avenue, Widnes, Cheshire, WA8 0WN
  - SA** Unit 2, 3 & 4, 80 Highview Blvd, Ferndale, Randburg, 2160, South Africa
  - NL** Sunsynk NL BV, Henri Wijnmalenweg 8, 5657 EP Eindhoven, Netherlands
  - AU** Level 1, 982-988 Wellington Street, West Perth WA 6005, Australia
  - ES** Tafetana, 32 P.I. Las Andoriñas 38639 Las Chafiras Santa Cruz de Tenerife
  - US** 100 S. Ashley Drive, Suite 600, Tampa, Florida, 33602, United States of America