

Technical Data	HI-5K-TL	HI-6K-TL	HI-8K-TL	HI-10K-TL	HI-12K-TL
<b>PV String Input Data</b>					
Max. DC input power	7500W	9000W	12000W	15000W	18000W
Max. DC input voltage			1100V		
Nominal input voltage			600V		
MPPT working voltage range			180V-1000V		
Number of independent MPPT / strings per MPPT			2/1+1		
MPPT max. current			20A/20A		

<b>Start-up voltage/Min.operating voltage</b>	200V/180V					
<b>AC Output/Input Data (On-grid)</b>						
<b>Nominal output apparent power</b>	5000W	6000W	8000W	10000W	12000W	
<b>Max. output apparent power</b>	5500VA	6600VA	8800VA	11000VA	13200VA	
<b>Nominal output voltage</b>	400V±20%					
<b>Nominal ouput frequency</b>	50Hz,60Hz/±5Hz					
<b>Max. output current</b>	8A	10A	13A	16A	19A	
<b>Power factor</b>	-0.8~+0.8(adjustable)					

<b>THDi</b>	<3%(Nominal Output)					
<b>Grid system pattern</b>	3L+N+PE					
<b>Max.apparent power from utility grid</b>	11000VA	12000VA	16000VA	20000VA	24000VA	
<b>Max.AC current from utility grid</b>	16A	20A	26A	32A	40A	
<b>Back-up Output Data (UPS)</b>						
<b>Peak output apparent power</b>	5500VA,10s	6600VA,10s	8800VA,10s	11000VA,10s	13200VA,10s	
<b>Nominal output apparent power</b>	5000VA	6000VA	8000VA	10000VA	12000VA	
<b>Nominal output voltage</b>	400V±20%					
<b>Nominal ouput frequency</b>	50Hz/60Hz					

Output THDV							<3%
Automatic switch time							<20ms
<b>Battery Input Data</b>							
Battery type							Li-Ion/ Lead-acid
Battery voltage range							42V-59V
Max. charging/discharging current	100A	120A		160A		200A	240A
Battery capacity(AH)							50-2000
Charging strategy for Li-Ion battery							Self-adaption to BMS
Charging strategy for Lead-acid Battery							Three-stage

Efficiency						
Max. efficiency	98%	98%	98%	98%	98%	98%
Europe efficiency	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%
Max. battery to load efficiency	98%	98%	98%	98%	98%	98%
Protection						
Anti islanding protection				Yes		
Insulation impedance protection				Yes		
RCD detection				Yes		
PV reverse polarity protection				Yes		

Output over voltage protection	Yes
Output over current protection	Yes
<b>General Data</b>	
Dimensions(W/L/H)in mm	403/465/285
Weight	25kg
Operation temperature range	-25°C~+60°C
Heat dissipation mode	Smart cooling
IP Class	IP 65
Maximum altitude	4000m
Self-Consumption night	<3w

**Topology**

Transformerless

**Features**

**LCD display**

Yes

**Communication interface**

WiFi/4G/USB/CAN/RS485

**Standards**

EN 62109-1/EN 62109-2/EN 62477-1/IEC 61000-6-1/IEC 61000-6-3/CEI 0-21/ UNE 217001/UNE 217002/VDE 0126/IEC 61727/IEC 62116/EN 50549-1/G98/ G99/AS 4777.2