

# PLENTICORE plus

with LG RESU FLEX



Technical Specification

PLENTICORE plus power class		3.0	4.2	5.5	7.0	8.5	10	
Input side (DC)	Max. PV power (cos $\varphi = 1$ )	kWp	4.5	6.3	8.25	10.5	12.75	15
	Nominal DC power	kW	3.09	4.33	5.67	7.22	8.76	10.31
	Input voltage range ( $U_{DCmin} - U_{DCmax}$ )	V	120...1000					
	MPP working voltage range ( $U_{MPPworkmin} - U_{MPPworkmax}$ )	V	120...720					
	Number of DC inputs		3					
	Number of combined DC inputs (PV or battery)		1					
	Number of independent MPP trackers		3					
	DC 3 – battery input optional - Activation code battery available at: <a href="http://shop.kostal-solar-electric.com">shop.kostal-solar-electric.com</a>							
	Working voltage for battery input ( $U_{DCworkbatmin} - U_{DCworkbatmax}$ )	V	120...650					
	Max. charging current/discharging current at battery input	A	13/13					
Output side (AC)	Rated power, cos $\varphi = 1$ ( $P_{AC,r}$ )	kW	3.0	4.2	5.5	7.0	8.5	10
	Output voltage ( $U_{ACmin} - U_{ACmax}$ )	V	320...500					
	Rated output current ( $I_{AC,r}$ )	A	4.33	6.06	7.94	10.10	12.27	14.43
	Max. output current ( $I_{ACmax}$ )	A	4.81	6.74	8.82	11.23	13.63	16.04 <sup>4)</sup>
	Grid connection		3N~, 230/400 V, 50 Hz					
	Standby	W	7.9					
$\eta$	Max. efficiency	%	97.1	97.1	97.1	97.2	97.2	97.2
	European efficiency	%	95.3	96.5	96.2	96.5	96.5	96.5
System data	Protection class according to IEC 60529		IP 65					
	Height/width/depth	mm	563 / 405 / 233					
	Weight	kg	19.6			21.6		
	Ambient temperature	°C	-20...60					
	Connection technology, DC side		SUNCLIX plug					
Directives/Certification <sup>1)</sup>		CE, GS, CEI 0-21, CEI10/11, EN 62109-1, EN 62109-2, EN 60529, EN 50438*, EN 50549-1*, NA/VEEA, G98, G99, IFS2018, IEC 61727, IEC 62116, RD 1699, RFG, TF3.3.1, TOR Erzeuger, UNE 206006 IN, UNE 206007-1 IN, UTE C15-712-1, VDE 0126-1-1, VDE-AR-N 4105, VJV2018						

		RESU FLEX 8.6	RESU FLEX 12.9	RESU FLEX 17.2	
LG Energy Solution		RESU FLEX 8.6			
Module type		Li-Ion NMC, BMA 48,9kg <sup>4)</sup> , BPU 16.5kg <sup>4)</sup>			
System data	Max. Power consumption in connection with PLENTICORE plus 3.0-10 <sup>2)</sup>	kW	3.45	5.18	6.50
	Usable capacity 95%/100% DoD <sup>3)</sup>	kWh	8,17/8.60	12.26/12.90	16.34/17.20
	Number of battery modules		2	3	4
	Voltage range	V	192-265.6	288-398.4	384-531.2
	Interface to inverter		RS485		
	Height/Wight	mm	665,2/665,2		
	Depth	mm	445.2	593.6	742
	Weight	kg	114.3	163.2	212.1
	Operating temperature	°C	-10...50		
	IP protection class		IP 55		
	Certification / Safety Standard		CE, RCM, UL1973, IEC62619, IEC62477-1		
EMC		FCC, IEC61000-6-1, IEC61000-6-2, IEC61000-6-3			

Subject to technical changes. Errors excepted. You can find current information at [www.kostal-solar-electric.com](http://www.kostal-solar-electric.com).

<sup>1)</sup> Does not apply to all national annexes, <sup>2)</sup> Depending on the max. Rated power AC of the inverter (PLENTICORE plus 3.0 max. 3.0 kW), <sup>3)</sup> According to the battery manufacturer, <sup>4)</sup> The weight of the bracket and design cover is not included.