PV String Input		Efficiency	Efficiency		
Max. Continuous PV Input Power	20kW	Max. PV Efficiency	/	97.60%	
Max. DC Voltage	1100V	Euro. PV Efficience		97.00%	
Nominal Voltage	720V	Features & Pro	,	07.00%	
MPPT Voltage Range	140V-1000V				
MPPT Voltage Range (Full Load)	420V-850V	Anti-islanding Pro		Yes	
Start Voltage ¹	200V	Output Over Curr		Yes	
Number of MPPT	2	DC Reverse Polar		Yes	
Strings Per MPPT	1	String Fault Detec		Yes	
Max. Input Current Per MPPT	15A	AC/DC Surge Pro		DC Type II; AC Type III	
Max. Short-circuit Current Per MPPT	20A	Insulation Detection		Yes	
	2371	AC Short Circuit F		Yes	
Output (On Grid)	40134	Input-side disconr		Yes	
Nominal AC Output Power	10kW	Residual current n		Yes	
Max. AC Apparent Power	11kVA	AC overcurrent pr		Yes	
Nominal AC Voltage	400Vac	AC overvoltage pr		Yes	
AC Grid Frequency Range	50 / 60Hz±5Hz	Ripple receiver co		Yes	
Nominal Output Current	14.5A	Battery reverse ch	arging from grid	Yes	
Max. Output Current	16A	General Data			
Power Factor (cosΦ)	0.8leading-0.8lagging *	Dimensions W x H x D		540*980*240mm	
Max. total harmonic distortion	<3%	Weight		49kg	
Battery Input		Operating Temper	ature Range	-25°C~+60°C	
Battery Type	LFP (LiFePO4)	Cooling Type		Natural Convection	
Nominal Battery Voltage	51.2V	Max. Operation Al	titude	2000m	
Charging Voltage Range	44-58V	Operation Humidi	ty	0~95% (No Condensation)	
Max. Charging Current	160A	IP Class		IP65	
Max. Discharging Current	200A	Topology		Battery Isolation	
Battery Capacity	200/400/600/800Ah	Communication		RS485/CAN2.0/WIFI/4G	
Output (Off Grid)		Display		LCD/APP	
Nominal AC Output Power	9.2kW	Standard Com	pliance (more av	vailable upon request)	
Max. Apparent Power	10kVA		Standard Compliance (more available upon request) Certificates IEC 62109-1: 2010; EN IEC 61000-6-1: 2019		
Nominal Output Current	13.3A	——— Certificates		2019; EN IEC 61000-6-1: 2019	
Max. Output Current	14.5A			07/A1: 2011; EN IEC 61000-3-11:2019	
Nominal Output Voltage	400V		IEC 62109-2:201	1	
Nominal Output Frequency	50/60Hz	Grid connection	VDE-AR-N 4105:2	2018 100:2020; CEI 0-21:2019;	
Output THDv (@Linear Load)	<3% (Linear Load)	standards			
Power factor range	0.8leading-0.8lagging		OVE-Richtlinie R 2	5:2020; EN 50549-1:2019/AC:2019	

0.95leading-0.95lagging for Germany.

Performance		General Sp
Energy Capacity	5.12kwh	Humidity
Usable Capacity	4.6kwh	Capacity
Depth of Discharge (DoD)	90%	Power Consur
Nominal Voltage	51.2V	Communication
DC Circuit Breaker	125A	Monitoring Par
Operating Voltage Range	44.8-56.5V	
Internal Resistance	<20mΩ	_
Cycle Life	10,000cycle	Cooling
Battery type	LiFePO4	Noise emission
System Weight	54KG	Max. operating
Dimension (W x D x H)	540*490*240	Display
IP Protection	IP65	Installation
Warranty	5 Years Product Warranty, 10 Years Performance Warranty	Scalability
General Specification		
Max. Charge/Discharge Current	50A/80A	_
Rated DC power	4096W	Compatibe inv
Max. Charge/Discharge Power	2825W/4096W	<u> </u>
Operating Temperature Range	0 to 50 °C charging	Standard C
	-10 to 50 C discharging	Certificates

General Specification	O DE04 (No condensation)
Humidity	0~95% (No condensation)
Capacity	200-800Ah
Power Consumption	<2W
Communication	CAN & RS485
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Cooling	Natural convection
Noise emission	≤25db
Max. operating altitude	≤2000m
Display	SOC status indicator
Installation	Floor stand, Wall mount(optional)
Scalability	Max. 4 battery packs in parallel opera for single phase system; Max. 8 batte packs in parallel operation for 3 phas system;
Compatibe inverters	Guard Plus 3680E/5000E, Guard Plus 8KH3/10KH3/12KH3
Standard Compliance (more a	vailable upon request)
Certificates	CE, EMC, IEC62619, UN38.3, UL1



