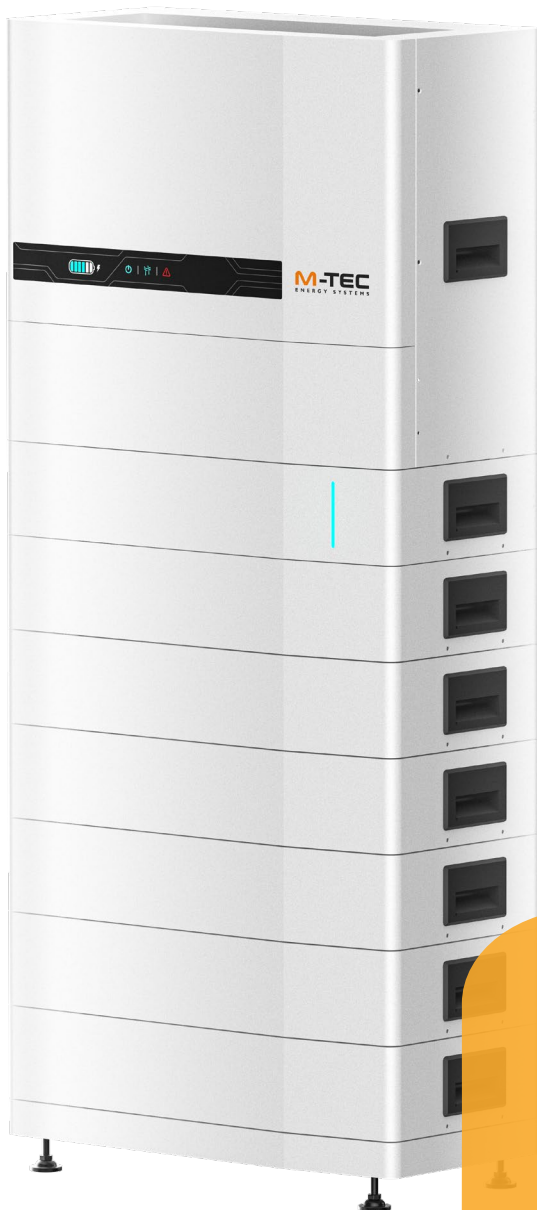


## Energy Butler 3-6kW-1P-3G



### ADVANTAGES:

- Island and black start capable
- Very high loading and unloading performance
- Full-fledged emergency power operation including PV recharging
- Easy and quick installation
- Safe and high-performance LFP cell technology

HYBRID INVERTER GEN3	3kW-1P-3G30	4.2kW-1P-3G30	6kW-1P-3G30	
Article	672330	672331	672332	
<b>General data</b>				
Maximum efficiency		97,6		[%]
European efficiency		97		[%]
Noise		<25		[dB]
Cooling		Passive cooling		[-]
Weight		55		[kg]
Dimensions (H x W x D)		615 x 698 x 356		[mm]
Emergency power capable		yes		[-]
Black start capable		yes		[-]
Solar recharge		yes		[-]
Switching time		< 10		[msec]
Permissible ambient temperature		0/40 (non-condensing)		[°C]
Standby consumption		< 15		[W]
Certifications		CE, IT, ES		[-]
Topology		Without transformer		[-]
Housing protection class		IP65		[-]
<b>PV connection*</b>				
Recommended max. input power	4,8	6,72	9,6	[kW]
Number of MPPT	1	2	2	[V]
String connection per MPPT	1	1/1	1/1	[A]
Max. input current per MPPT	15	15/15	15/15	[A]
Max. short-circuit current per MPPT	20	20/20	20/20	[-]
MPPT Workspace	100-550			[V]
MPPT Rated Operating Range	360			[-]
Starting voltage	100			[V]
Max. DC input voltage	550			[V]
<b>Battery connection*</b>				
Max. charge/discharge current	30/30			[A]
Voltage range	85-450			[V]
Number of ports	1 plus, 1 minus			[-]
Type	M-TEC LFP Battery Storage (2-5 Modules)			[-]
<b>AC power supply*</b>				
Nom. Output Power	3	4,2	6	[kW]
Max. Peak Power	3,3	4,6	6,6	[kW]
Max. Output Current	15	21	28,7	[A]
Nom. Output Voltage	230			[V]
Nom. Output Frequency	50/60			[Hz]
Mains connection	1P/N/PE (up to max. 10mm <sup>2</sup> , F)			[-]
Mesh type	TN network			[-]
Operating voltage	1P, 230V AC, 50Hz			[-]
<b>AC emergency power connection*</b>				
Nom. Output Power	3	4,2	6	[kW]
Max. Peak Power	3,3	4,6	6,6	[kW]
Max. Output Current	15	21	28,7	[A]
Nom. Output Voltage	230			[V]
Nom. Output Frequency	50/60			[Hz]
Emergency power connection	1P/N (up to max. 10mm <sup>2</sup> , F)			[-]
Mesh type	TN network			[-]
Operating voltage	1P, 230V AC, 50Hz			[-]

\* Service reductions of up to 10% are possible. All information without guarantee: Spelling and printing errors excepted.

BATTERY STORAGE						
Model		7.7kWh	11.5kWh	15.3kWh	19.2kWh	
<b>General data</b>						
Number of battery modules		2	3	4	5	[-]
Weight (incl. inverter)		159	201	243	285	[kg]
Dimensions	H	1117	1255	1393	1531	[mm]
	B	698				[mm]
	T	356				[mm]
Temperature range charging/discharging		0-40				[°C]
Housing protection class		IP21				[-]
Battery		LFP (Lithium Iron Phosphate)				[-]
Number of cells		24				[-]
Certifications		UN 38.3, IEC 62619:2022				[-]

Performance data						
Max. storage capacity		7,7	11,5	15,3	19,2	[kWh]
Nominal voltage		153	230	307	384	[V]
Max. charge/discharge current		50				[A]
Max. Depth of Discharge (DoD)		90				[%]
Max. usable storage capacity		6,9	10,4	13,8	17,3	[kWh]
Max. Charging Efficiency		98,4				[%]
Max. Efficiency Discharge		97,5				[%]

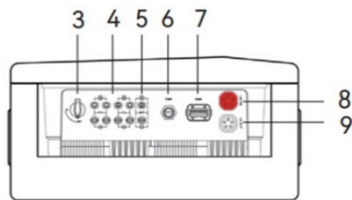
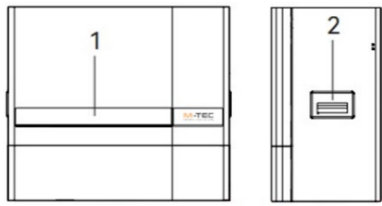
Max. charge/discharge power M-TEC Energy Butler**					
Inverter model		3kW-1P-3G30	4.2kW-1P-3G30	6kW-1P-3G30	Battery modules
Max. charge/discharge capacity		3,0	4,2	4,5	[kW]
		3,0	4,2	6,0	
		3,0	4,2	6,0	
		3,0	4,2	6,0	

\*\* Table by nominal values, deviation due to actual SoC and/or temperatures not taken into account!

Integrated Protective Measures Hybrid Inverters
DC reverse polarity protection, battery input reverse polarity protection, insulation resistance protection, Surge protection, protection against overheating, residual current protection, island formation protection, AC Surge Protection, Overload Protection, AC Short Circuit Protection

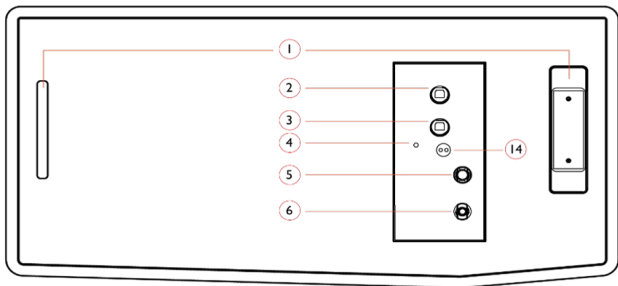
AC Plug		
<p>Remove insulation sleeve 50mm; Strip individual wires by an additional 8mm</p>	<p>Connection head AC plug</p>	<p>Connection head Energy Butler</p>

**Inverter connections**



- 1 Display and LED
- 2 Handle
- 3 DC Switches
- 4 PV DC Input Socket
- 5 Battery input socket
- 6 COM1 connector
- 7 COM2 connector
- 8 Mains output jack
- 9 Emergency Power Output Socket

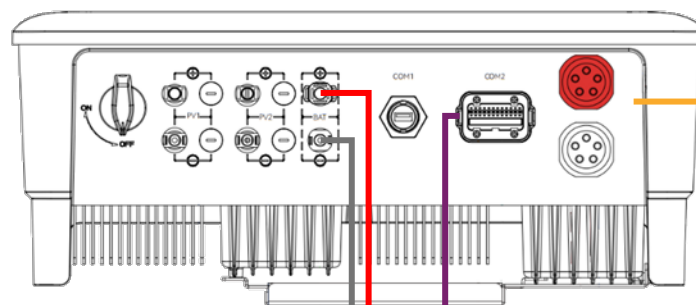
**Battery Connections (BMS)**



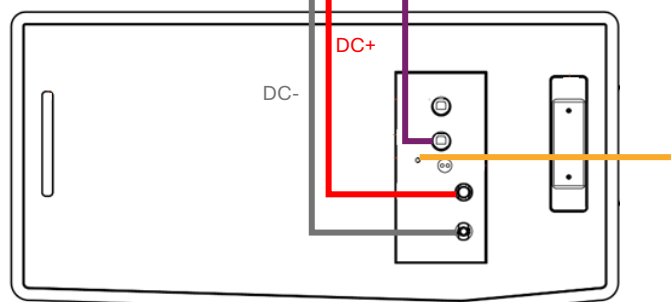
- 1 Inverter Positioner
- 2 Remote LAN / Service Port
- 3 Inverter COM
- 4 Grounding Point
- 5 Battery DC Output +
- 6 Battery DC Output -

**Connection inverter – BMS**

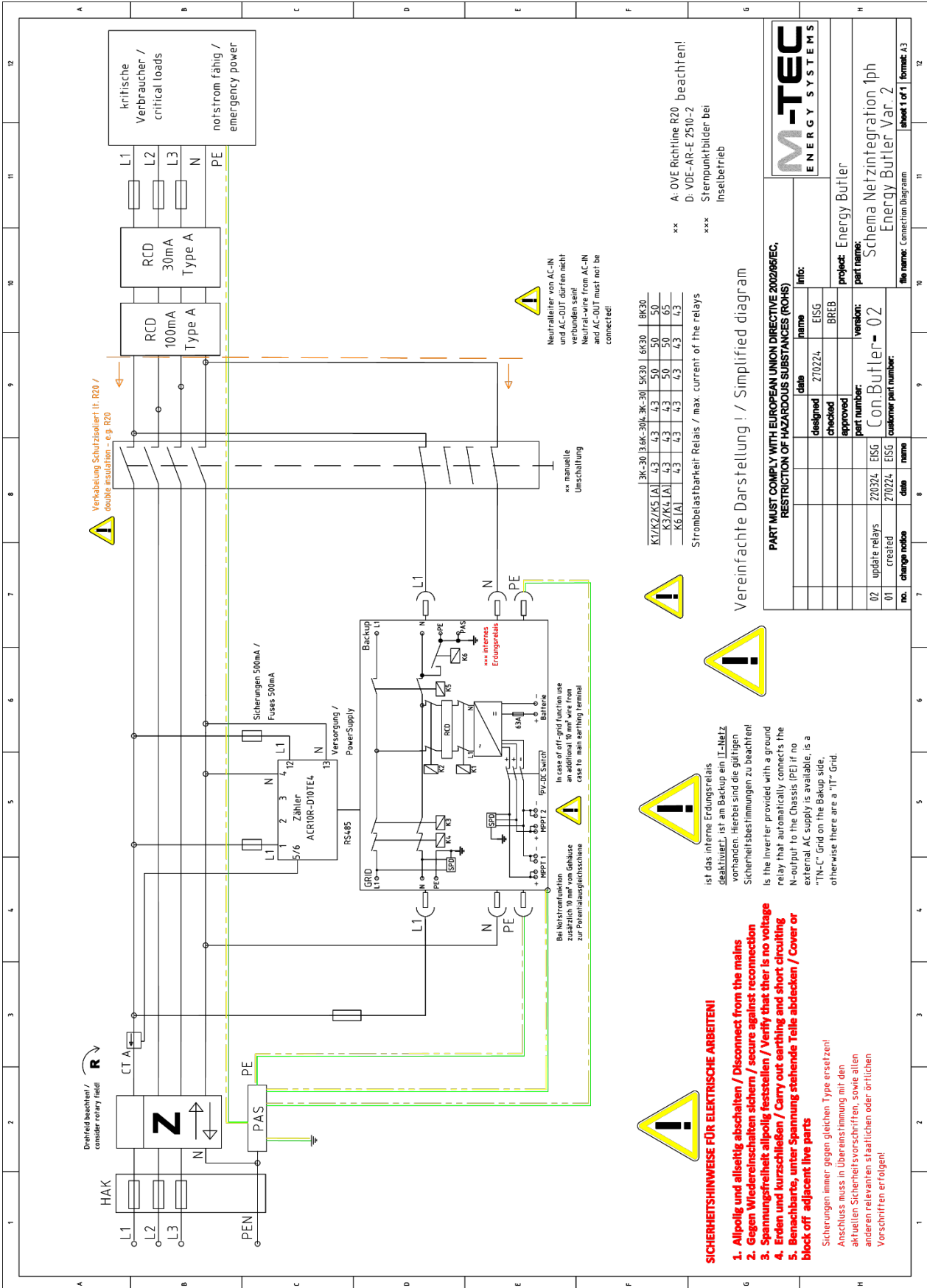
Inverter  
View from below



BMS  
View from above



**Electrical connection**



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