

# INDRIVETEC AG

"bricks up" flexible energy storage systems

"BRICK" IDT-Energy Management System Hardware

## IDT Power Grid Measurement Box

Power Supply with UPS Option

Robust Industrial Controller

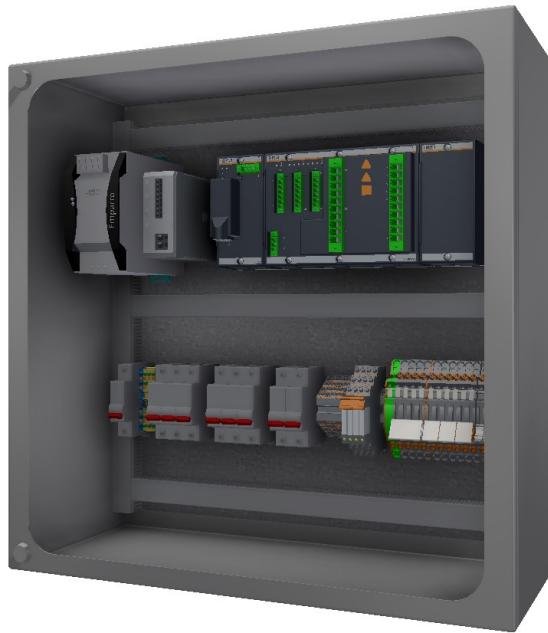
Integrated real-time data recorder

Event logging

4Q energy counter

Flexible I/O Configuration

Optional Enclosure with  
Transparent or Stainless Door



Certified Grid Protection Device

System protection

Grid synchronisation

Circuit breaker control

Precise limit value monitoring

Highspeed Interface to IDT EMS

High-accuracy power  
measurement

### Key features:

proven all-in-one system design

compliant with multiple regulations and standards

for outdoor, indoor and cabinet use

leading control and communication technologies

comfortable installation, maintenance and use

easy system integration

### Functions:

power measurement

power quality monitoring

grid and system protection

seamless synchronization and switching between grid and

island mode (version IDT GMB-S)

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## "BRICK" IDT-Energy Management System Hardware

### Technical data

System Type	IDT GMB	IDT GMB-S
AC connection		
Nominal AC Power	240 W	
AC nominal voltage	230 V/ 110V, 1~	
Grid frequency	50 Hz / 60 Hz	
AC operating current	1 A	
AC maximum current	3 A	
DC connection		
Backup battery option	24 VDC	
General data		
Enclosure material	Stainless steel	
Enclosure door material	Stainless steel, optional polycarbonate window	
Dimensions W x H x D	500 x 500 x 210 mm	
Mounting plate material	Zinc-coated steel	
Mounting plate dimensions W x H X D	450 x 470 x 2,5 mm	
Weight	30 kg	
Cooling / Heating	natural convection	
Relative humidity	0% to 100%	
Operation temperature	-30°C ... +60°C	
Ingress protection	IP65	
Measurements		
Voltage	3 x UL-L up to 690 V, UL-N up to 400 V higher voltages via voltage transducers	7 x UL-L up to 480 V, UL-N up to 277 V, higher voltages via voltage transducers
Current	3 x via 5 A current transformers, 1 A optional	4 x via 5 A current transformers
Frequency	50 Hz / 60 Hz (10 Hz to 75 Hz, accuracy <0.001Hz), ROCOF	50 Hz / 60 Hz (10Hz to 75Hz, accuracy <0.004Hz), ROCOF
Phase	Phase angles, asymmetry, field rotation direction	
Power	P, Q, S per phase and total	
Power Quality	THD, voltage and current harmonics up to 50th harmonic	
Energy	2x 4Q energy meters	1x 4Q energy meter
Interfaces		
IDT EMS	Fastbus (up to 2000 m distance)	
Voltage Measurement	3 x grid	7 x (3 x grid, 3 x unit, 1 x busbar)
Current Measurement	3 x (L1, L2, L3)	4 x (L1, L2, L3, N)
Digital inputs (switch position)	-	4 (2 for each CB)
Digital outputs (synchronization)	-	4
Relay outputs (grid protection)	2 changeover contacts for circuit breaker	
Standards, Certificates, Approvals		
Grid codes	VDE AR 4105, VDE AR 4110, VDE AR 4120, EN50549	
EMC	IEC 61000	
Components	IEC/CE/UL	

Technical data are subject to change, even for reasons on country-specific deviations. Indrivetec assumes no liability for errors and omissions.

