

# INV (EU)-E-15/20 GT-03

Multi-MPPT String Inverter for 1000 Vdc System

NEW



## HIGH YIELD

- Lower startup & wider MPPT voltage
- Compatible with bifacial modules



## SMART MANAGEMENT

- Optional Smart IV curve scanning
- Remote firmware updates



## SAFE AND DURABLE

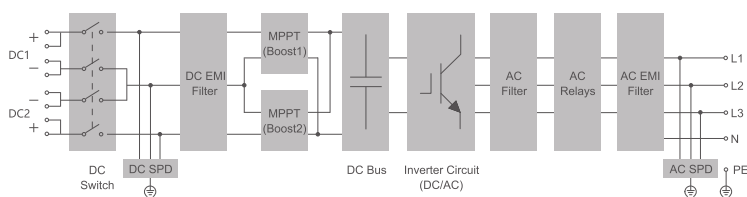
- Build-in Type II DC & AC SPD
- High anti-corrosion rating at C5



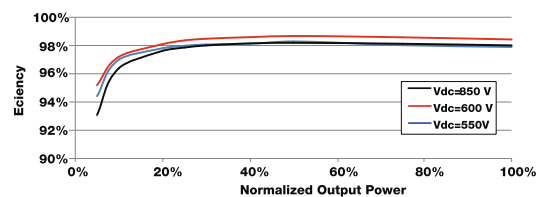
## EASY AND USER FRIENDLY

- 21 kg compact design
- Fast and easy commissioning via App

## CIRCUIT DIAGRAM



## EFFICIENCY CURVE



Type designation	INV (EU)-E-15 GT-03	INV (EU)-E-20 GT-03
<b>Input (DC)</b>		
Recommended max. PV input power	22.5 kW	30 kW
Max. PV input voltage	1100 V *	
Min. PV input voltage / Start-up input voltage	180 V	
Nominal input voltage	600 V	
MPP voltage range	160 V – 1000 V	
No. of independent MPP inputs	2	
No. of PV strings per MPPT	2/2	
Max. PV input current	50 A (25 A / 25 A)	
Max. DC short-circuit current	64 A (32 A / 32 A)	
<b>Output (AC)</b>		
Nominal AC power (@230 V, 50 Hz)	15000 W	20000 W
Max. AC output power	16500 VA	22000 VA
Max. AC output current	25 A	31.9 A
Nominal AC voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V 3 / N / PE, 240 / 415 V	
AC voltage range	180 V – 276 V	
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz 60 Hz / 55 – 65 Hz	
Harmonic(THD)	<3 % (at nominal power)	
Power factor at nominal power / Adjustable power factor	>0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / AC connection	3 / 3	
<b>Efficiency</b>		
Max. efficiency	98.50%	
European efficiency	98.10%	
<b>Protection</b>		
Grid monitoring	Yes	
DC reverse connection protection	Yes	
AC short-circuit protection	Yes	
Leakage current protection	Yes	
Surge Protection	DC Type II / AC Type II	
DC switch	Yes	
Arc fault circuit interrupter (AFCI)	Yes	
PID recovery function	Yes	
<b>General Data</b>		
Dimensions (W*H*D)	370*480*195 mm	
Mounting method	Wall-mounting bracket	
Weight	18 kg	
Topology	Transformerless	
Degree of protection	IP65	
Operating ambient temperature range	-25°C to 60°C	
Allowable relative humidity range	0% – 100%	
Cooling method	Natural cooling	
Max. operating altitude	4000 m (> 2000 m derating)	
Noise(Typical)	35dB(A)	
Display	LED	
Communication	WLAN, Ethernet, RS485, DI, DO	
DC connection type	MC4	
AC connection type	Plug and play	
Compliance	EN 61000-6-1/-3, EN 61000-3-11/-12, IEC62109-2, IEC 61727, IEC 62116, IEC 61683, IEC 60068, EN 50530	

\*: The inverter enters the standby state when the input voltage ranges between 1,000V and 1,100V. If the maximum DC voltage in the system can exceed 1000V, the MC4 connectors included in the scope of delivery must not be used. In this case MC4 Evo2 connectors must be used.