

50Hz Micro-Inverter: County-Specific Data Overview



AT - Austria (PN# -02)

Nom. AC voltage range: 184 V ... 264 V
 AC frequency range: 47.5 Hz ... 51 Hz
 Product Safety: IEC 62103:2003, IEC 62109-1:2007, IEC 55011B, ÖNROM E8001-4-712, EN 50178:1997

BB - Barbados (PN# -43)

Nom. AC voltage range: 195.5 V ... 253V
 AC frequency range: 47.5 Hz ... 51 Hz
 Product Safety: IEC 62103:2003, IEC 62109-1:2007, IEC 55011B, VDE 0126-1-1:2006, EN 50178:1997

BE - Belgium (PN# -03)

Nom. AC voltage range: 195.5 V ... 253V
 AC frequency range: 47.5 Hz ... 50.5 Hz
 Product Safety: IEC 62103:2003, IEC 62109-1:2007, IEC 55011B, EN 50178:1997, VDE 0126-1-1:2006, with parameter settings C10/11-2009.05

CH - Switzerland (PN# -18)

Nom. AC voltage range: 184 V ... 264 V
 AC frequency range: 47.5 Hz ... 50.2 Hz
 Product Safety: IEC 62103:2003, IEC 62109-1:2007, IEC 55011B, VDE-AR-N 4105, EN 50178:1997, VDE0126

DE - Germany (PN# -01)

Nom. AC voltage range: 184 V ... 264 V
 AC frequency range: 47.5 Hz ... 51.5 Hz
 Product Safety: IEC 62103:2003, IEC 62109-1:2007, IEC 55011B, VDE-AR-N 4105, EN 50178:1997

UK - United Kingdom (PN# -07)

Nom. AC voltage range: 207 V ... 264 V
 AC frequency range: 47.5 Hz ... 50.5 Hz
 Product Safety: IEC 62103:2003, IEC 62109-1:2007, IEC 55011B, ERG83/1, EN 50178:1997

GR - Greece (PN# -08)

Nom. AC voltage range: 184 V ... 264V
 AC frequency range: 49.5 Hz ... 50.5 Hz
 Product Safety: IEC 62103:2003, IEC 62109-1:2007, IEC 55011B, VDE 0126-1-1:2006 with deviations, EN 50178:1997

NL - Netherlands (PN# -10)

Nom. AC voltage range: 195.5 V ... 253V
 AC frequency range: 48 Hz ... 51 Hz
 Product Safety: IEC 62103:2003, IEC 62109-1:2007, IEC 55011B, VDE 0126-1-1:2006 with limits of EN 50438:2007, EN 50178:1997

TR - Turkey (PN# -12)

Nom. AC voltage range: 184 V ... 264 V
 AC frequency range: 47.5 Hz ... 50.2 Hz
 Product Safety: IEC 62103:2003, IEC 62109-1:2007, IEC 55011B, VDE-AR-N 4105, EN 50178:1997, VDE0126

DC INPUT DATA	INV250-45	INV350-60	INV350-90	INV500-90
Maximum PV power	250 W	350 W	350 W	500 W
Max. DC voltage	45 V	60 V	90 V	90 V
Min./Max. voltage	18 V / 45 V	18 V / 60 V	40 V / 90 V	40 V / 90 V
MPPT range	20 V ... 40 V	20 V ... 50 V	40 V ... 80 V	40 V ... 80 V
Max. DC current	11 A	11 A	9 A	11 A
AC OUPUT DATA				
Maximum AC power	240 W	330 W	330 W	480 W
Nominal AC voltage	230 V	230 V	230 V	230 V
Nom. current	1.0 A	1.4 A	1.4 A	2.1 A
Frequency	50.0 Hz	50.0 Hz	50.0 Hz	50.0 Hz
Power factor	> 0.99	> 0.99	> 0.99	> 0.99
EFFICIENCY				
Peak inverter efficiency	93.5 %	93.5 %	95.0 %	95.0 %
European efficiency	91.4 %	91.8 %	93.6 %	94.0 %
Nominal MPP efficiency	99.8 %	99.8 %	99.8 %	99.8 %
MECHANICAL DATA	for all INV versions			
Operating temperature range	-25 °C ... +70 °C			
Night time power consumption	30 mW			
Dimensions chassis (LxWxH)	314 x 267 x 66.5 mm			
Weight / max. altitude	2.5 kg / 2000m			
Cooling	Nat. Convection			
Enclosure environmental rating	Outdoor - IP65			
Enclosure material	Aluminum			
Degree of pollution	Pol deg II			
SAFETY STANDARDS	for all INV versions			
Safetyclass	Class I			
EMC	EN 61000-6-2, EN 61000-6-3			