

# DATASHEET



Circle



Square

<b>Date</b> 30/07/2018	<b>Revision</b> V.10	<b>Prepared</b> L.Panisi	<b>Verified</b> L.Corghì	<b>Approved</b> G.Scaltriti
<b>Progress</b>				
<b>References</b>				

<b>Model</b>	<b>S6</b>
<b>INPUT data</b>	
Input power Range (kWp)	1-18
N. of String input	1-18
N. of MPPT	1-3
VIN Range (Vcc)*	90-180
Recomended working VIN (Vcc)*	125-145
* Recommended strings configuration with standard modules: N.4 modules for each string with $V_{mmppt} = 36V_{cc}$ $P_{string} \approx 1 \text{ kWp}$	
<b>OUTPUT data</b>	
Nominal Voltage (V)	230
POUT inverter (kW)	6
POUT renewable energy (kW)	3,3-6,6-10
Nominal Frequency (Hz)	50
N. of output lines	2 (User - Owner Grid)
Connection type	Screw terminals (Max 10mm <sup>2</sup> )
Harmonic distorsion	<2%
Allowed Cosphi	0,1-1
Overload working	Disconnection after 60" of preoveload alarm
Short circuit max value	50A
Supply	Single-phase
Net type	TT
Main Internal components efficiency	Up to 97%
<b>Emergency supply data</b>	
Nominal Voltage (V)	230
Nominal Frequency (Hz)	50
Net Absorbition (kW)	0-6
Source	from Public Net, Owner Grid or GenSet
Connection type	Screw terminals (Max 10mm <sup>2</sup> )
Supply	Single-phase
<b>Battery data</b>	
Nominal Voltage (V)	48
Storage capacity (kWh)	9.6-19.2
DoD	90%
Battery type	Sodium Nickel

Expected lifetime	20 years
Battery warrant	10 years
<b>Environmental conditions</b>	
Temp. range (°C)	-10/+40
Humidity	95%
Above sea level working	< 2000m
Environmental protection	PDII
<b>Security/Protection devices</b>	
Level of protection	IP20
Protection class	I Class by IEC 62103
AC Overvoltage category	III
DC Overvoltage category	II
Galvanic separation	Yes
CC Underload Switch	Yes
AC Differential protection (mA)	300 (30 optional)
CC SPD	Optional
Automatic system bypass	Yes
Manual switch ON/OFF/Bypass	Yes
<b>System monitoring</b>	
Remote monitoring	Optional
Local monitoring	Display / USB
<b>Features</b>	
AC IN overvoltage protection	Yes
Overload protection	Yes
Dynamic load management	Yes
MPPT	Yes

DC/DC converter	Yes
String Fuse protection	Yes
String measurement	Yes
Broken string check	Yes
Priviledge Load (CP1)	Yes
Fill into the grid Module (CEI0-21 for Italy)	Optional
AC IN Owner grid Module	Optional
<b>Rules</b>	
CE	Yes
CEI 0-21: 2016-07	Yes
Rules	CEI 0-21:2016-07 (Allegato B-bis), EN 61000-6-2, EN 61000-6-3, ETSI EN 301 489-1, EN 301 489-7, EN 62109-1, EN 62109-2, EN 60950-1
<b>Other</b>	
Ventilation	Forced
Sound pressure Level (dB)	46,2
Size Circle (mm)	1 Battery $\varnothing$ 790 x 1623(H) - 2 Battery $\varnothing$ 790 x 2050(H)
Size Square (mm)	1 Battery 740 (L) x 620 (P) x 1400(H) - 2 battery 740 (L) x 620 (P) x 1800(H)
Weight Circle (kg)	1 Battery 300 - 2 Battery 500
Weight Square (kg)	1 Battery 200 - 2 Battery 400
Warranty	10 years