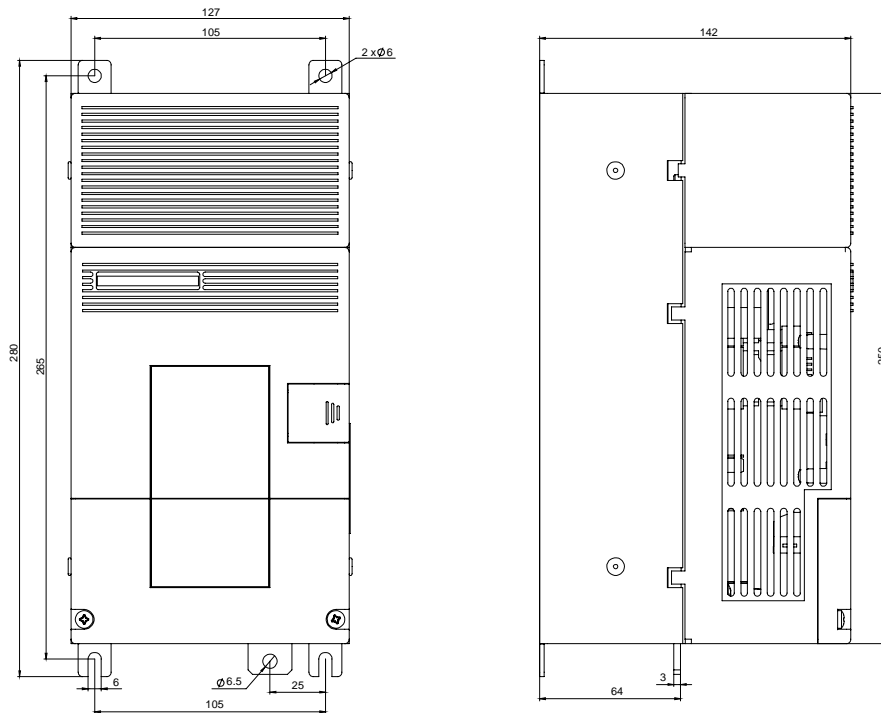


**SPIM/H x.x-230 Technical Data**

Type	SPIM/H 0.8-230	SPIM/H 1.5-230	SPIM/H 3.0-230
<b>Output Power Ratings</b>			
Applicable AC Induction Motor (ACIM) Power	0.8 kW / 1.1 HP	1.5 kW / 2.0 HP	3.0 kW / 4.0 HP
Converter Output Power Capacity	<b>1.7 kVA</b>	<b>3.0 kVA</b>	<b>5.7 kVA</b>
Output Voltage / Rated Motor Voltage	3~ 230 V <sub>rms</sub> (from 0 to U <sub>SUPPLY</sub> )		
Output Frequency	0÷60 Hz (512 Hz upon request) variable frequency; <i>frequency parameters are software adjustable</i>		
Switching Frequency	2±12 kHz (adjustable)		
Output Current / Rated Motor Current	4.5 A <sub>rms</sub>	7.6 A <sub>rms</sub>	14.0 A <sub>rms</sub>
<b>Input Power Ratings</b>			
Max Input Voltage (V <sub>oc</sub> )	650 V <sub>DC</sub>		
MPPT Range	250 ÷ 620 V <sub>DC</sub>		
Number of PV String Inputs	1	2	
Recommended PV Array	1 x 12 (13) PV x (255÷300)Wp	1 x 14 (15) PV x (255÷300)Wp	2 x 14 (15) PV x (255÷300)Wp
Input AC Grid / Mains Voltage	1~ 230 V <sub>rms</sub> ±15% / 50(60) Hz		
Input AC Grid Current (max)	7 A <sub>rms</sub>	11 A <sub>rms</sub>	21 A <sub>rms</sub>
<b>Additional Power Options</b> – converter matched output chokes and output sine filters (depending on the output line cable length, i.e. depending on the distance, between the converter output and the pump motor input); converter matched input line chokes and filters			
<b>Application Data</b>			
Rated Operating Temperature Range	-10°C to +45°C		
Maximum Operating Temperature Range	-20°C to +55°C		
Storage Temperature Range	-40°C to +75°C		
Protection Degree	IP20		
Operating Relative Humidity Range	5% to 95%, non-condensing		
Altitude	≤ 2000m ( <i>above 2000m – derating</i> )		
Conformity with Norms	EN 62109-1:2010; EN 62109-2:2011; EN 61800-5-1:2007; EN 61800-3 C3		
<b>Indication &amp; Control Data</b>			
LED Indication	4-Digit 7-Segment LED Indicator		
Communication Interface	RS 232/485 / <b>MODBUS RTU</b>		
Control Interface	Multifunctional Digital Inputs / Outputs; Relay Output; Analogue Input		
AC Induction Motor Control	<b>MPPT based V/f constant control</b>		
Built-in Electronic Protections	Over Voltage, Short Circuit, Over Load, Earth Fault, Phase Loss, Overheating, PV Reversal, Dry Run		
<b>Service mode and visualization through RS 232/485 port by remote control panel type “DRCP”</b>			
Frequency Adjustment; Acceleration / Deceleration Time Ramps; Motor Voltage Adjustment; Service Diagnostic & Adjustment			
Visualization: DC Voltage / AC Voltage / Output Frequency / Motor Phase Current / Calculated Output Power / Solar Log and other			
<b>SPIM/H x.x-230 Additional Control Options</b>			
<b>Water Level Control Module (external option)</b> implemented by two sets of sensors for draw-well and water tank high/low level with LED indication			
<b>Output Energy Management</b> – built-in prepayment functionality for pump power sourcing, according to the pre-paid energy credit loaded to the system			

## Dimensions

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SPIM/H x.x-230 Overall Dimensions, [mm]

## Contacts

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