

Inverter Power+

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Part-number	PSD1*102**	PSD1*122** PSD1*162**	PSD1*184** PSD1*244**	PSD1*354** PSD1*404**
				
Common Applications	HP, Proc.Chiller, Cabinets	HP, Proc.Chiller, Cabinets	HP, Proc.Chiller, CCU	Chiller, CCU
Input voltage range	1ph 200-240Vac ±10% 50/60 Hz	1ph 200-240Vac ±10% 50/60 Hz	3ph 380-480Vac ±10% 50/60 Hz	3ph 380-480Vac ±10% 50/60 Hz
maximum output current	10A	12/16A	18/24A	35/40A
Temperature & humidity range	-20°C+60°C, 95% not condensing	-20°C+60°C, 95% not condensing	-20°C+60°C, 95% not condensing	-20°C+60°C, 95% not condensing
Electromagnetic compatibility (EMC) - on Carel testing UNIT -	class C1 (EN 61800-3)	class C2 (EN 61800-3); class C1 (EN 61800-3) with additional optional filter	class C2 (EN 61800-3);	class C2 (EN 61800-3);
Harmonic distortion compatibility	"EN 61000-3-12 (I input >=16A) EN 61000-3-2 (I input<16A)"	EN 61000-3-12 (I input >=16A)	EN 61000-3-12 with optional DC choke filter (I input >=16A)	EN 61000-3-12 (I input >=16A)
Casing	bare board on plastic base	plastic cover and base	plastic cover and base	metal cover and base
IP protection rating	IP00	IP20 (board side)/ IP44(heatsink side) IP20 only (without heatinks gasket)	IP20 (board side)/ IP44(heatsink side)	IP20
Cooling versions available	With finned heatsink and forced ventilation; with Coldplate adapter; without cooling adapter (IMS)	With finned heatsink and forced ventilation; with Coldplate adapter	With finned heatsink and forced ventilation; with Coldplate adapter	With finned heatsink and forced ventilation; with Coldplate adapter
DC choke reactor (harmonics passive filter)	N.A.	N.A.	option available as accessory	HEATSINK VERSION: indoor (2 DC chokes) COLDPLATE ADAPTER VERSION: outdoor, provided with the product
Active PFC filter	indoor, "single-coil" version	indoor, interleaved "twin stage" version	N.A.	N.A.
Power terminal board	Fast-on connectors	Non-removable screw terminals	Non-removable screw terminals	Non-removable screw terminals
I/O available	1 DO relay 1 PTC input for stop due to compressor temperature 1 x RS48/MODBUS serial port	1 DO relay 1 PTC input for stop due to compressor temperature 1 x RS48/MODBUS serial port 1 input for emergency stop	1 DO relay 1 PTC input for stop due to compressor temperature 1 x RS48/MODBUS serial port 1 input for emergency stop	1 DO relay 1 PTC input for stop due to compressor temperature 1 x RS48/MODBUS serial port 1 input for emergency stop
Accessories	NA	EMI Filter PSARF10000	DC choke filter PSACH10100, PSACH10200	NA
Maximum speed (when the output power < maximum power)	weakening field control	weakening field control	weakening field control	weakening field control
Switching frequency	4-6-8 kHz	4-6-8 kHz	4-6-8 kHz	4-6-8 kHz
Skip frequencies band	3 bands	3 bands	3 bands	3 bands
Documentation	+030048IT	+030048IT	+030048IT	+030048IT